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<221> misc feature
<222> (1249)
<223> n equals a,t,g, or c

<400> 684
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cctgaaacag attttacatc ctacttctca ttttacagtt tcagagactc ctccactctc 240
tgggaatgac acggactccc tctcctgcga cagtggcagt tcggcaacta gcactccgtg 300
tgtgtcccgc ctggtcactg gccaccacct gtgggccagc aagaatggcc gccatgtcct 360
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gaccctggaa gaggcctaca ggcggctgaa gcttctctgg agagtctcac tccccgagga 600
tggccagtgc ccccttcact gtgagcagat tggagaaatg aaggcagagg tcaccaaact 660
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gagcaagcgc caggaaaaag tcatctttga tcaattggtc gtaacccaca aaatccttcg 780
gaaggccaga ggaaacctgg agcttaggcc tgggggagcc catccaggaa catgcagtcc 840
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<210> 685
<211> 2600
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (476)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1905)
<223> n equals a,t,g, or c
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<400> 685

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ggaaagaccg gaggcagtag ctgcaaagcc cttggaaaca ccctggatgc tgttgagggc 180
caagagatct gtgtggctcc tgggccggct gagtggcagc agccccctt gccccacctc 240
cccttcccc tacccaaccc tgccctgccc caccccacct cacagctact cagtggggct 300
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tggctgcagg aagaaacttt tttattttt aaatcttgac caacagaaac cttttatttt 420
tatttctgac tcttattttt taaaaaattt gcgcctcggt atctggcttc cctggnaact 480
ctccgagctc tggtgcttta gttaggtcat tttttagaa atgtgaagag gtctgattgg 540
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gctgcaggtg ttctgctgat atcaacagct tccctatttt gaatgcagaa aacagggtct 660
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gttaaaaaaa aaaaaaaaaa                                                 2600
```

<210> 686
<211> 4641
<212> DNA
<213> Homo sapiens

<400> 686

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gggggggaca gggggcctgc gggaggagca gcgctatggg ctgtcgtgcg gacggctggg 180
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gacttaccag agccacaaga atttaattcc ttttcgacct tcaatccagt tccaaggact 300
ccacgggctt gtcaaaattc ccaaaaatga tcccctcaat gaagttcata actttaactt 360
ttatttgtca aatgtgggca aagacaaccc tcagggcagc tttgactgca tccagcaaac 420
attctccagc tctggagcct cccagctcaa ttgcctggga tttatacaag ataaaattac 480
agtgtgtgca acaaacgact cgtatcagat gacacgagaa agaatgaccc aggcagagga 540
ggaatcccgc aaccgaagca caaaagttat caaacccggt ggaccatatg tagggaaaag 600
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<210> 687
<211> 400
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<400> 687
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tgggtccccc aggacacggg cccagaagag ccccacgggt tcctgcatct tccamcgcac 180
catacctgga gccctccgag gggtgtcagg ggaaacaggc caccgccaaa gccatggccc 240
gccgccgaaa gcccaggccc cacccgcacc tcctcaccca tccagcctga cccacgcggc 300
```

```
ctctcctcct cccttgccgct gtktggggca rtcccctgtc cgccccaaaa ccggcttggt 360
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```

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<210> 688
<211> 2751
<212> DNA
<213> Homo sapiens
```

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<220>
<221> misc feature
<222> (528)
<223> n equals a,t,g, or c
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atgttgggaa agcagataac cctgaatgac atggaatctg tggatagtga atattacaac 180
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aacacctgag gcagtgtggg agttgaacga ccctgctgtc cttttaacc tgtgttgtcc 2400
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<210> 689
<211> 969
<212> DNA
<213> Homo sapiens

<400> 689
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tgggcgacca gtacgtgaaa gacgaattta ggagacataa gaccgttggt tctgacgagg 180
cacagcgttt cttgcaagaa tgggaggtgt atgcaacagc gttattgcaa caggctaacg 240
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aacccaatag gcaatttagt atttctgagt ctatgaaacc aaaattttag tctatacaac 420
aaagcttaat aagacatgca aaaatttaga acccctactt taactgtcat tggttttttga 480
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agcacttgta taaaattcag ttttggaact aaacagcaaa tttctagaat tttgctgaaa 660
atgtttaaa atgctattct catccagcca tattagtctt ctggcttttc tttagcttca 720
tcaaataagc atgttgtgat aatgatagat gtacaattcc aacaaggtta ttattttta 780
aatacattgt cattytgaac attttatcac ttctagttta ataatacata catgattttt 840
cttctgaatg tctcttctcc ctgcatcact gttcattcac aatgaaaggt taggaagaag 900
ctttaaaatt cactatttta ctatcaatca tttgtataat aaactataca aagtataaaa 960
aaaaaaaaa                                                          969
```

<210> 690
<211> 979
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (943)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (945)
<223> n equals a,t,g, or c

<220>
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<222> (957)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (959)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (969)
<223> n equals a,t,g, or c

<400> 690
tgtgcctgcg ttcgggaagg gcagactgtg taccagcaag tcctgtccct gggagcgccc 60
aagtgtcctc cgcagctgga actggggcct gtgtgggtac tttgctttct accatgccct 120
ctatccccga gcctggactg tctatcagct tcctggccag aatgtcaccc tcacctgccg 180
tcagatcaca cccatcttgc cccatgacta ccaggacagc agcctgcctg taggagtctt 240
tgtgtgggat gtggaaaatg aaggggacga agctctagat gtgtccatca tgttctccat 300
gcggaatgga ctgggtggtg gagacgatgc cccagggggt ttgtggaatg agcccttctg 360
tctggagcgt agsggnggaa actgtccggg ggctgctcct gcatcatcca acccttccaa 420
acccctacac gatggctgtg gctgcacgag tcacggcagc taccacggta acccacatca 480
cagcctttga ccctgacagc acggggcagc aggtgtggca ggatctactt caggatggac 540
agctggactc tcccactggc caaagcaccc ctacgcagaa aggagtaggc attgctggag 600
ctgtgtgtgt ttccagcaag ttgcgacctc gaggccagtg ccgcctggag ttttcactgg 660
cttgggacat gcccaggatc atgtttggag ctaaaggcca agtccactac aggcggtata 720
caaggttctt tggccaggat ggagatgcag cacctgccct cagccactat gcactgtgcc 780
gatacgcaga gtgggaagag aggatctcag cttggcagag cccggtattg gatgacagat 840
cactgcctgc ctggtacaaa tytgcgctgt tcaatgaact atacttcctg gctgatggag 900
gcacagtgtg gctggaagtt cttgaggaca tccaggataa agntntcttc tatcctnanc 960
ggggccaana agcctatga                                               979

<210> 691
<211> 693
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<400> 691
cgtggggccc ccggttgccg cccccctngga aaaaggcatt gctggctctg aagaagcaaa 60
gtagcagcag cacaaccagc caaggtggtg tcaaacgctc actatcagag cagcctgtca 120
tggacacagc cacagcaaca gagcaggcaa agcagctggt gaagtcagga gccatcagtg 180
```

```
ccatcaaggc tgagaccaag aactcaggct tcaagcgttc tcgaaccctt gaggggaagt 240
taaaggaccc cgagaaggga ccagtcccca ctttccagcc gttccagagg agcatatctg 300
ctgatgatga cctgcaagag tcatccagac gtccccagag gaaatctctg tatgrgagct 360
ccctcgctgt ccagaacagc cctaaggggtt gccaccggga caagaggacc cagattgtct 420
acagtgatga cgtctacaag gaaaaccttg tggatggctt ctagggaaca gagctggatt 480
ccttgtgcct catatgcccc aatgctggtc tcagtaaaac actgaggtgg aagcttacac 540
atctccctca gcctctggtt tttcagcact tgggattggg gttaaacctt taaaaacggc 600
tgtcaggttt gatctcagtg taacaacatg gccagtgcct gttccccact cccttgcccc 660
aaaaggattt ggaacccaaa aaaaaaaaaa aaa                              693
```

<210> 692
<211> 1382
<212> DNA
<213> Homo sapiens

<400> 692
```
gcccactcgc tgcggcgctt ctggctⁿcag accgccctcc ggatcggacc ctgcgaatgg 60
ttttggctat atcttcatgc tgggcttcat caccaggcct cctcacagat tcctgtccct 120
tctgtgtcct ggactccgga tacctcaact ctcagtactt tgtgctcagc ccaggcccag 180
agccatggct atctcctctt cctcctgcga actgccctg gtggctgtgt gccaggtaac 240
atcgacgcca gacaagcaac agaactttaa aacatgtgct gagctggttc gagaggctgc 300
cagactgggt gcctgcctgg ctttcctgcc tgaggcattt gacttcattg cacgggaccc 360
tgcagagacg ctacacctgt ctgaaccact gggtgggaaa cttttggaag aatacaccca 420
gcttgccagg gaatgtggac tctggctgtc cttgggtggt ttccatgagc gtggccaaga 480
ctgggagcag actcagaaaa tctacaattg tcacgtgctg ctgaacagca aggggcagt 540
agtggccact tacaggaaga cacatctgtg tgacgtagag attccaggc aggggctatg 600
tgtgaaagca actctaccat gcctgggccc agtcttgagt cacctgtcag cacaccagca 660
ggcaagattg gtctagctgt ctgctatgac atgcggttcc ctgaactctc tctggcattg 720
gctcaagctg gagcagagat acttacctat ccttcagctt ttggatccat tacaggccca 780
gcccactggg aggtgttgct gcgggcccgt gctatcgaaa cccagtgcta tgtagtggca 840
gcagcacagt gtggacgcca ccatgagaag agagcaagtt atggccacag catggtggta 900
gaccccctggg gaacagtggt ggcccgctgc tctgaggggc caggcctctg ccttgcccga 960
atagacctca actatctgcg acagttgcgc cgacacctgc ctgtgttcca gcaccgcagg 1020
cctgacctct atggcaatct gggtcaccca ctgtcttaag acttgacttc tgtgagttta 1080
gacctgcccc tcccacccc accctgccac tatgagctag tgctcatgtg acttggaggc 1140
aggatccagg cacagctccc ctcacttgga gaaccttgac tctcttgatg aacacagat 1200
gggctgcttg ggaaagaaac tttcacctga gcttcacctg aggtcagact gcagtttcag 1260
aaaggtggaa ttttatatag tcattgttta tttcatggaa actgaagttc tgctgagggc 1320
tgagcagcac tggcattgaa aaatataata atcataaaaa aaaaaaaaa aaaaaaaaa 1380
aa                                                               1382
```

<210> 693
<211> 3098
<212> DNA
<213> Homo sapiens

<400> 693
```
caaataggca aaataacact ttatcattat cattggtcat atacctagtg catttgtcta 60
tgatatgttt ttgagtatat gacactgaaa tattagtgta tctatgatac taaatcattt 120
ttatatggct aaaatcatct tcagtaagaa ctctcttagg atatgaattt aagtgaaaat 180
ttactgtctt tttttttaaaa catgatgaaa cagtaatcta tagagcaatt tcattagⁿat 240
```

```
atgtgagtaa tgatggttta gttaactcta caggctgggt aagggctcat aagaaagctt 300
ctaaagctct gtgctttgtg ttcctctgtg aatgtccatt ctacttctct ttctaataat 360
gcatgctttt ctttttgtaa acaaaatgtt gacttcatgg atcaattaaa gagaattgta 420
aaaacctaaa ttggcttcag ttaacagtta aaaaaaaccc cttcaattgg aagaaaaaaa 480
aatttaattc atagatttca atccacacaa aatcatgtcg tcttctctgt ttacacctaa 540
tgrctaacct taatctctaa accattaatg gggtgattct aatttctgtc ttcttttcct 600
ttttcttcct gcatcccatg ttgtctgtgg tggtttgtgt ggttggactc tcccctggtc 660
agtattttta tttccaggag gtgttccctg tcttggctgc aaagcactgt atcatgcagg 720
ccaatgctga gtaccatcag tctatcctgg caaaacagca gaagaaattt ggagaagaaa 780
ttgcaaggtt acagcatgca gcagaactga ttaaaacagt ggcatctcgc tatgatgaat 840
atgttaatgt gaaggatttt tctgacaaaa tcaatcgtgc ccttgctgca gcaaagaagg 900
ataatgactt catttatcat gatcgagttc cagaccttaa agatctagat cctattggca 960
aagccacact tgtgaaatct accccggtca atgtacccat cagtcagaaa tttactgatc 1020
tgtttgagaa gatggttccc gtgtcagtac agcagtcttt ggctgcctat aatcagagga 1080
aagccgattt ggttaacaga tcaattgctc agatgagaga agccaccact ttggcaaatg 1140
gggtgctagc ttcccttaat cttccagcag caattgaaga tgtgtctgga gacactgtac 1200
ctcagtctat attgactaaa tccagatctg tgattgaaca gggaggcatc cagactgttg 1260
atcagttgat taaagaactg cctgaattac tgcaacgaaa tagagaaatc ctagatgagt 1320
cattaaggtt gttggatgaa gaagaagcaa ccgataatga tttaagagca aaatttaagg 1380
aacgttggca aaggacacca tccaatgaac tgtataagcc tttaagagca gagggaacca 1440
acttcagaac agttttagat aaagctgtgc aggcagatgg acaagtgaaa gaatgttacc 1500
agtctcatcg tgacaccatc gtgctttttgt gtaagccaga gcctgagctg aatgctgcca 1560
tcccttctgc taatccagca aagaccatgc agggcagtga ggttgtaaat gtcttaaaat 1620
ccttattgtc aaatcttgat gaagtaaaga aggaaagaga gggtctggag aatgacttga 1680
aatctgtgaa ttttgacatg acaagcaagt ttttgacagc cctggctcaa gatggtgtga 1740
taaatgaaga agctctttct gttactgaac tagatcgagt ctatggaggt cttacaacta 1800
aagtccaaga atctctaaag aaacaggagg gacttcttaa aaatattcag gtctcacatc 1860
aggaattttc aaaaatgaaa caatctaata atgaagctaa cttaagagaa gaagttttga 1920
agaatttagc tactgcatat gacaactttg ttgaacttgt agctaatttg aaggaaggca 1980
caaagtttta caatgagttg actgaaatcc tggtcaggtt ccagaacaaa tgcagtgata 2040
tagtttttgc acggaagaca gaaagagatg aactcttaaa ggacttgcaa caaagcattg 2100
ccagagaacc tagtgctcct tcaattccta cacctgcgta tcagtcctca ccagcaggag 2160
gacatgcacc aactcctcca actccagcgc caagaaccat gccgcctact aagccccagc 2220
ccccagccag gcctccacca cctgtgcttc cagcaaatcg agctccttct gctactgctc 2280
catctccagt gggggctggg actgctgcgc cagctccatc acaaacgcct ggctcagctc 2340
ctcctccaca ggcgcaggga ccaccctatc ccacctatcc aggatatcct gggtattgcc 2400
aaatgcccat gcccatgggc tataatcctt atgcgtatgg ccagtataat atgccatatc 2460
caccagtgta tcaccagagt cctggacagg ctccataccc gggaccccag cagccttcat 2520
acccottccc tcagcccoca cagcagtctt actatccaca gcagtaatat gtctgctcag 2580
cagctcagct gattcagatc agagggaaag aaataccaac cctgcaataa gtgtactaaa 2640
ctctacgctc tggttaatgt aatgtactct cctggactga atgcagtgta taatttctgt 2700
ctacagctag aagctgtgcc ccagttccac atttgattac acatgtgaga tttgctgctg 2760
ttgcagtata aacactaggt ataataggat ttgaaattgc attacagttc ataaaaattg 2820
aaaatgagaa attaaacctg caagtgaaac atttgaaacg attatacttt ctacataaga 2880
catggttggg acatcagata cttacaaaga tggtttaagt atggatacta gagaaaatta 2940
agttttcttt ctctttggtt tattgatttg gtttaatttc cattatgcta ttttgcataa 3000
tcaaggcact gtaaatctta taattttaaa ataaattact taagaacaaa aaaaaaaaaa 3060
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagg                        3098
```

<210> 694
<211> 489

```
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c

<400> 694
gaaagtctac ccgcctcctt gtgacagaag tgcgactgcc agctgccgag gcgttcggtc 60
ctgctgttgc ggccgctgcc ccagggctgc ggggacgctc ccggagccct gcctgttccc 120
tgtccatcca ggccagcagc tgaaggagcc tcacctgcct cccttctctg agtagcacgg 180
atttraggag aagcagcgaa gatgtccagc gagcctcccc ctccttatcc tgggggcccc 240
acagccccac ttctggaaga gaaaagtgga gccccgccca ccccaggccg ttcctcccca 300
gctgtgatgc agccccctcc aggcatgcca ctgcccctg cggacattgg ccccccaccc 360
tatgagccgc cgggtcamcc aatgccccag cctgggttya tcccaccama catgagtnca 420
gatgggmact acatgcctcc gggttttta cccttcttca ggggccccca cccacccttg 480
gggtaatta                                                        489

<210> 695
<211> 1844
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<400> 695
gccactaagc tgncntgcgc gcgcctgcag gtcgacacta gtggatccar agacaaaatg 60
gaaatttaaa tgacatccta gaggtagaga aaccgtggag atcgcttttc tcagactcac 120
caacttttaa tgggatttca tggggtttgg ttgtgctgat agggtaaggg gaggctgctt 180
tctgcccttc tccccactcc catctgattt acttaattca gtctcagctg ctgaaatttg 240
gaaaggacca aattgcttta cagttttttt ctttgtgtag tatcttgaaa tcctggaaaa 300
ttctatggaa tagttctgta tatagggcac aagtaaaggc attgtccaaa gtttatttat 360
ttatttatta ccctaagaat gctttgccat aaccacattt aatgggaaaa acggcagtat 420
cacagatgta aattaactca ccagatttac tgggcctgaa ctcattctct tcttgctata 480
tgatttagca agttctagaa ggtctccaag acaataatta cattggcaca atgtatactt 540
cagtgctcac ccgtaggcaa atctcttttt aaaaaactct ttggtgcaca agtaacacat 600
ttggccacaa aacaccaaag aattgtaggc agtggcccct attgagaagt tttccggtag 660
agttggaaat cagttgtgaa tacattcttt gctagttgga gtgcttgttt actaagcatg 720
tgccgtcgta ggtattagtg ctagtctcaa ataggtgctt cccctgaggt gcagggaag 780
accaaagttt gcaactcgaa ctgctttcgt ccatgtttct cacattgctg tatttagaa 840
aataggggtt aagactgata acaacctttt acattgtgac tgtgtttgca ttgtctaatg 900
acagataaat ccttaacatt tctctccacc ttagtacttt agactaattg tgtttgtccg 960
```

```
tccatgccat gaatgagtgg gctgtagttg ggcctaaata aatgagctgt tggaagaaaa 1020
gaatcacagt actttccagc agtcagtccc tggttcctag atgtgttcta agcaatgcaa 1080
atgtctaatt gtcccccagt gggcatagtc agtgtcgttt atattgtagc agttacagct 1140
ctgtagttta tgatgcaaat ctgccaagag agatgtatgt gtcactgcat ggcttctgaa 1200
agcaggatga attttctgca gctgtttcaa agttggggtc tgttcttgaa tcctctatta 1260
attactgtgt gtgagccaga gggagctgtg gtaagggttg ggcccccagc ctgtagggaa 1320
ctttctggac tcccactctt tgaatcgata taggcatttg gtctcactac ttgaccattc 1380
tcaccctgtg aaacgtccca cactttgaag caaatacaat tcacagcaca gtacacacaa 1440
aaaccttggc ataagacaga gaaggttctt cttattttgt gggctggttg ctgtagaaac 1500
acataacaaa gggcagccct ccacttctgg tataattgtg tagccccttt tctttgggct 1560
tgacacctgt cttgaataag agtgattaga gctgcataat gtccctctct tggctattga 1620
ccatgtggtt cacgtacaaa actctgtata agttgaagga aaatgttcat gttcatatgt 1680
acttgtttgc tatgactaca ttttgaggtt ttgtaaaact gttatttttt ttttttcac 1740
aatgtgaaac tgaaggtcaa taaattatta gagattttct cttcaaaaaa aaaaaaaaaa 1800
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggggg gggg              1844
```

```
<210> 696
<211> 605
<212> DNA
<213> Homo sapiens
```

```
<400> 696
cctgcactac tctgtcaaat taaaaaatat aatagctatc tttattctca ttttaaagca 60
tgataatcat caaaatgttg aagtttatca cagttctaca ttaaaaataa gtcatttttg 120
taggtgagtt atccaataca gcaaaggcca tcaaagagaa agccaatact ttcatggaga 180
gctcagagcc ttaatagatc ccagcagcaa tgcttcaacc attcccaact ccatgttcct 240
tgctagatgc tcctcacccc aaactcctgc aaatttcaag aatttctgtg tatgwgtgtg 300
ttaagggagg agttttaaag tatctctgta ttcaacaaga tacgtcagct tgtaagcagc 360
agaaacctac ttaaactakc ttacatgaga aaataacatt ataaagacat aggagtgttt 420
ctacaccaag agctggaggt attgtttggt ttcatgaagg gttaaaatct gtaattccaa 480
aagtaggact tcaggcagct gcaccatcaa tctgtgtctt tctctcwggt actgtgggac 540
tctatwcccg tctgacttgc tttggttccc ggggcatcat tcttggcttt gggaaaacac 600
acttt                                                         605
```

```
<210> 697
<211> 540
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (114)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
```

```
<222> (488)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c

<400> 697
agggcacact agggacctac cgtacaacac ttcagcattg ttaagcactt aaccatttga 60
aaaaacttaa tgaaatgatt aatttttttt ttaattttac tgaaggatgt atnnatagat 120
ttaggaggga tatgaggggtg actaaaaagt taaatttttc taatgtgaac ttttatttat 180
gttggcttgt atcttacaat ttgtaatttt aaagtcatgt taggccaatg raatgtgagc 240
gcctcaagaa tagctattaa gtatcatact aaatttggcg gacgtacaga tctgtgttac 300
aaagaaatgg aaaagtcatc cctgtgtcac ggggatgaaa agcctgctag ccattccaat 360
tgactgagra catcttgcaa agaacccacc ttacttctgc cggtacagcc ttgggcaaat 420
taaagtcatg tcaaatcaat ttagtagtaa gttcccttwt acmaatagtt atgtgtccac 480
acacgtgnng aatgtttat gggaactaat ggaagcgagc aaatcccaga aggntctctg 540

<210> 698
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<400> 698
ggcagagggg agactcagct gatactgctt ccttgagatt taatacacct tcctttgatc 60
tctcctgtcc ccattatccc aggaaaatcc agagtagctt ccagtccatt ctcattaatc 120
cactggatcc aaagtttaga gaggttcccc ttccctccag cctccttcct ggcccaacag 180
aggagcaccc caccacctc catcagctgc tcaaaaccca caagggaaaa atccctacag 240
gtccatgcca ggaggtagtg gagctaccct ncaggttcca ttaagtcata ccagaaggct 300
gagtgtagaa atgaacatta agaggggttc catctgtagg gaaagggttc aagatgcaaa 360
gctttacaga aggttctccg tctaattgtg aagattaaga gcactggtgg acctaggaag 420
atgaagaatg gagagtgggg aaaccagcag agattttcag gaatgtttta gggggcnttt 480
tcatcgtttc aaagca                                                 496

<210> 699
```

```
<211> 987
<212> DNA
<213> Homo sapiens

<400> 699
ggcacgagct caactgcaag gacgctgtaa gcaggaagag aagccacagc gcttcagaaa 60
agagtgggac agggacaagc atatctaaga ggctgaacat gaatccacag atcagaaacc 120
cgatgaaggc aatgtatcca ggcacattct acttccaatt taaaaaccta tgggaagcca 180
acgatcggaa cgaaacttgg ctgtgcttca ccgtggaagg tataaagcgc cgctcagttg 240
tctcctggaa gacgggcgtc ttccgaaacc aggtggattc tgagacccat tgtcatgcag 300
aaaggtgctt cctctcttgg ttctgcgacg acatactgtc tcctaacaca aagtaccagg 360
tcacctggta cacatcttgg agcccttgcc cagactgtgc aggggaggtg gccgagttcc 420
tggccaggca cagcaacgtg aatctcacca tcttcaccgc ccgcctctac tacttccagt 480
atccatgtta ccaggagggg ctccgcagcc tgagtcagga aggggtcgct gtggagatca 540
tggactatga agattttaaa tattgttggg aaaactttgt gtacaatgat aatgagccat 600
tcaagccttg gaagggatta aaaaccaact ttcgacttct gaaaagaagg ctacgggaga 660
gtctccagtg aggggtctcc ctgggcctca tggtctgtzt cctctagcct cctgctcatg 720
ctgcacgggc ctcccctcca ccctggaccc gctctgtttc tgcctggtca tcctgagccc 780
ctcctggcct cagggccatt ccacagtgct cccctgcctc accgcttcct cctcgctctt 840
ccagactctt cctgcagagg ctcctttctg cctccatggc tatccatcca cccccacaga 900
ccccgttcct ccagcctgcg tgcccctaac ctggctttc ccatctcccc agcataacca 960
aatcttacta aactcawsct aggtggg                                    987

<210> 700
<211> 1675
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1616)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1635)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1659)
<223> n equals a,t,g, or c

<400> 700
tggattaaag cgggtaagtg ctacagctgc ccacagaaat gctttacaga atcctaaaca 60
gggaggcacc cagttgaaaa cagaaaaaat acatatgttt ttgttagctc cmgtggcaac 120
agggatcaac agtcacaatg atagaggaag gggcattcaa ggaaccatta atgagcaatg 180
tgcctcctct ctcaaaatca gggcaagcca tggcaccaag atgatgactc cagaggtgct 240
ggcagaggca tatggcaaga aagagtggaa gcacttcttg tcggacactg gaatggcttg 300
ccgctcagga aagtattact tttacgacaa ctactttgac ctgccaggag ctcttctgtg 360
tgccagggtg gtggactatt taacaaaact gaacaatggt caaaaaacat ttgatttttg 420
```

```
gaaggatata gttgctgcta tacaacacaa ttataaaatg tcagctttta aggaaaactg 480
tggaatatat tttccagaaa taaaaagaga tccaggcaga tatttacata gttgtcctga 540
atctgtgaaa aaatggcttc gacagctaaa gaatgctgcg aaaattcttc tgttaattac 600
cagttctcac agtgattact gtagacttct ctgcgaatat attcttggga atgattttac 660
agaccttttt gacattgtga ttacaaatgc attgaagcct ggtttcttct cccacttacc 720
aagtcagaga cctttccgga cactcgagaa tgatgaggag caggaggcac tgccatctct 780
ggataaacct ggctggtact cccaagggaa cgctgtccac ctctatgaac ttctgaagaa 840
aatgactggc aaacctgaac ccaaggttgt ttattttggt gacagcatgc attcagatat 900
tttcccagct cgtcactata gtaattggga gacagtcctc atcctggaag aactcagagg 960
ggatgaaggc acgaggagtc agaggcctga ggagtcagag cctctagaga agaaaggaaa 1020
atatgaggga ccaaaagcaa aacctttaaa tacttcatct aaaaaatggg gctctttttt 1080
tattgattca gttttgggac tggaaaatac agaagactcc ttggtttata catggtcttg 1140
taagagaatc agtacttaca gcactattgc aattccaagt attgaagcaa tcgcagaatt 1200
acctctggac tacaaattta caagattctc ttcaagcaat tcaaaaacag ctggctacta 1260
tccaaatcct ccactggtct tatcaagtga tgagacactg atatccaaat aagttgtctt 1320
tactgaaaaa tgaagtgaag acccatatat gcagttaaaa aaaagttaat tttcaaaaaa 1380
tactgtaaaa gactttaagg aacaagtttt attgaccaat aagttgatat ttgtccatag 1440
gtctcctttc tataaatcat cttgatgttt aacaactctt attatattaa aatctcagta 1500
tcctaaaact taggaacctt attggatatt ttctattaca gtagtttgt ggttgggatt 1560
cacccggggg ggccacacac tcacacggca cagttcactc tttacacata tggccncggt 1620
cccgtggggt tctcnaaggt gtggttccct tggggcctnt tgggcttggg ccttt    1675
```

```
<210> 701
<211> 556
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (502)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (505)
<223> n equals a,t,g, or c

<400> 701
ttaacccccac agtctacttt tttttctgtt gcagacctta agacaatgta gtaatacgtc 60
ttttacccat cccccaaata acagtgtaca cagtgtgttt tttccccttta gtggagtgag 120
cagtatgtta gtgaggttag gtgagcatct agatttgttc cacagaaaag ggtgtttcca 180
gccagtatca gtgatgttgg tacttctcca acagtctaaa tctaaggggtt ttaggagcct 240
gttygattaa gtgataagaa gataccctcg tctggtgttt ctttcagtgc tgcctcttca 300
tctttttagca gaaggcacaa atgccttta tttgctccgt ggtgaaaagc ttccagttct 360
caataggcac aggatgtcag tggccacagt tggtgtaagc ctgttcagag tcttctaatt 420
tgaaactgta gtggtgttta gtttataaag ctanaagaag aatctgtgga gggtctggaa 480
```

```
ttgtatttgt gtggtgaaat tngtnacttt tagatgagga aagaaaacct ttgcttttgc 540
ccaaaacctg tgccag                                                556
```

```
<210> 702
<211> 1138
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1074)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1096)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1138)
<223> n equals a,t,g, or c

<400> 702
gccaaagcga gaatggggac ttagttcctg tcccctgagc ttcagagaac acaaaaacct 60
gaggcctcca gtggctttct gtggctcccc agtgaggctg tcagcccctc agtcctcagc 120
cacttcctgg gctggggacc tcacagtttc ctgttcctgc cttgaggccg ggcaaacgca 180
gcaccaactg ctccccacag gtgcacagcg tggtgctgtc agagcgggac ctgcagcggg 240
agatcaaggc ccagctggcc cagctgcccg attccgcgcc gggacccccg ccccggccac 300
aggtccgcct cgccgggggcc caagccatct ttgaggccca gcagctggca ggagtgcgac 360
gaggcgccaa gcctgaggtg cctcggattg tggtgcagcc cccggaggag cccagaccac 420
cgcggcggaa accccagacc cgcggcaaga ctttccatgg gctcctgact cgggcccggg 480
gcccccccat cgaggggccc cccaggcccc aacgaggctc cacctccttc ctggacaccc 540
gcttctgaga ggaccatgga cttagtgtcc cccagtctca attgcctgat ggctgatgcc 600
agcccggcaa ataggcaccg cactttactc ttgggactcg gggacttggc ttccttcctg 660
gcaaggacca ggcagtgggg aaggaggagg tcctccgtgg tacatactgg gtcaggcact 720
agcatggagg agggtcacag agtggggcac gtgaggaccc atggaaccgt cctggtgccc 780
aggccctcac aagtaccaaa gccagcacca aaggagtcag ggaaggggtt ggctgagtca 840
agggacccca gagggcacca ggaataaaat cttcttgaac agaaaaaaaa aaaaaaaagg 900
gcggccgctc tagaggatcc aagcttacgt acgcgtgcat gcgacgtcat agctcttcta 960
tagtgtcacc taaattcaat tcactggccg tcgttttaca acgtcgtgac tgggaaaacc 1020
ctggcgttac ccaacttaat cgccttgcag cacatccccc tttcgccagc tggnttaata 1080
gcgaagaggc ccgcancggt tcgcccttc cccacaattg cgccctggaa tgggcgan   1138
```

```
<210> 703
<211> 1062
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
```

```
<222> (1044)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1061)
<223> n equals a,t,g, or c

<400> 703
cactgtgtgg agggcacctc tctgtccctt ccgtgtctca ctgtctctgg aagcttcagc 60
ccatgtgtgt cctggtgttc ccagccccac cagagcccgt gccgggagct gacagctttc 120
acgcttaagg cacgtgtgac ctgggtagtc agacaccact tgagcccctg cccacatctg 180
ctggtttggg gcttcagtgg ggagctgaca gctgtgagca caccactgtc ccctcatcca 240
cctcggcctg catggggcac ccacttcctt ctgggtgggg cttccatggt aaggggggcct 300
gcgtccctgc acactgcgag gactgccttg cacaggccca ctccctacga cacgtgactc 360
gttttagagc tctgtcccag aggcgttcgt atgtgaccca cagatggcgt caatgtgaac 420
acctctcttt gtgctgaatt tctgggccat tcttttcctg tcttatttct aaatttcctt 430
cttccaagat gaaaacaaaa gaaaaactta aaacagaagg tattaaaaaa acaagagatt 540
cccaccatta tttaggttca cctgcaraac aaaaatctta ctccarcccc tcaatgccat 600
cctgacacac tttatgcaaa aagaattttc ccagataggc tagccagaaa aaacttcaag 660
tcctctgtaa catctgaggt gaccaagagg cagaagagca gagcagtcgg gggccgtgtc 720
ctggctgatc ccaactgcag ctctgctgtg ggggcccgtg ggagggaggc agaccctgg 780
gctttcctgc tggccacgga gactctgctc ctgcatggaa agggagcctg ggagccagca 840
gcccacgcct ggggagcctg cctggggcca tgtgaccatg gcctctccct gggaacgggc 900
tgaccacaac acaccctgct gccatccact tctgtttact ctgcaaatgt aagaaagaac 960
cacttggcca gaagtgtccc ccagatgstt ttttttttt tttttgggag acagttttgc 1020
yyttgyttcc cggytggagt gcantggcat ggatctaact nt              1062

<210> 704
<211> 865
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (685)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (831)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (847)
<223> n equals a,t,g, or c

<400> 704
gagagaacta gtctcgagtt tgtttctctt atatgcccac catttttttca tatatatatg 60
atttgatttt atatacacat atgtatacat attatatata aatatatatg tgtatacata 120
```

```
tatgtgtgta tatctatgaa tcaaacatac tgtttctgtt ggagatggtt cagaattata 180
aagattatct gaatctttat ctgtgagcag tctccaagka agaagttgmr aggtgaagcc 240
tttgactgct gtcatgtctg aggtcattcc aaggacatgg gagactgctg tccatggttg 300
gatcctctta acatcagcag agttctgtca agttacttag ctttcactgg ggcagctcta 360
gcattccatt aattcaaaat gktgtcctta atataagcct ctamcattta aaataaaaat 420
tttaaatgta tccattaagg gaataattac atattgaatt cctaagaaat aagaattatt 480
tgggtggttt tttctagata gaataaacac aagagctgga ctatattaac tgttgtatac 540
actttttaa ctggcatttt yagttacttg tgattttttcc aggaaaaata aaaatgaatt 600
aaagtggaac agtggacttc taattggttt tgtcttttga ttacatttga ccatcaacaa 660
tgatgtaagc cttggataga atgtngcccc tcagtgcccc acttaaattt cttggtaaac 720
ctttggtgta tacacttcat tgtgcttttt ggaatgactc taaaagccca taaactaatg 780
ctttgcaaag cctaaataaa aatggttgca gcctgtatta ggaaccactt nccttttatg 840
gtcctgnatg taaatagggg gtttt                                      865
```

```
<210> 705
<211> 1383
<212> DNA
<213> Homo sapiens

<400> 705
gctgtggagc ggctgccggc gtttcggggc gcgcctcggc tgcctgcccg gcggtctccg 60
ggtcctcgtc cagaccggcc accggagctt gacctcctgc atcgaccctt ccatgggact 120
taatgaagag cagaaagaat ttcaaaaagt ggcctttgac tttgctgccc gagagatggc 180
tccaaatatg gcagagwggg accagaagca tgtgtgcctg gatgattgat agcttcggaa 240
atgaggaaca gaggcacaaa ttttgcccac cgctctgtac catggagaag tttgcttcct 300
actgcctcac tgaaccagga agtgggagtg atgctgccts tcttctgacc tccgctaaga 360
aacagggaga tcattacatc ctcaatggct ccaaggcctt catcagtggt gctggtgagt 420
cagacatcta tgtggtcatg tgccgaacag gaggaccagg ccccaagggc atctcatgca 480
tagttgttga gaaggggacc cctggcctca gctttggcaa gaaggagaaa aaggtggggt 540
ggaactccca gccaacacga gctgtgatct tcgaagactg tgctgtccct gtggccaaca 600
gaattgggag cgaggggcag ggcttcctca ttgccgtgag aggactgaac ggagggagga 660
tcaatattgc ttcctgctcc ctgggggctg cccacgcctc tgtcatcctc acccgagacc 720
acctcaatgt ccggaagcag tttggagagc ctctggccag taaccagtac ttgcaattca 780
cactggctga tatggcaaca aggctggtgg ccgcgcggct gatggtccgc aatgcagcag 840
tggctctgca ggaggagagg aaggatgcag tggccttgtg ctccatggcc aagctctttg 900
ctacagatga atgctttgcc atctgcaacc aggccttgca gatgcacggg ggctacggct 960
acctgaagga ttacgctgtt cagcagtacg tgcgggactc cagggtccac cagattctag 1020
aagagctgtt ctggcagggg cctggagtcc agagccgcag cttcgctctt ttcggggggc 1080
ctcagattcc tctgctgctg cccttttcct ctggagatct gcgagaaggg tgaactgaga 1140
taatggatga gaaagcatgt tgaaaaccac agccggggct tttctctaag gttatcgagt 1200
acgtggttct cagggatcca agaacagtga tggacaaggc aaatgtgagc cagtatggtc 1260
atcagtagct ctatattgat tatcagccag atggcctaaa agatacctgt ctcaatatta 1320
ctagtgtatt tttcaataaa ataaaccatc actaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaa                                                             1383
```

```
<210> 706
<211> 1155
<212> DNA
<213> Homo sapiens

<220>
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```
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<400> 706
ggcagagtga ttattttaat gtaaccttgc taaagnagtg atttctattt cctttcttaa 60
agaggaggaa caagaagatg aggaagaaat cgatgttgtt tctgtggaaa agaggcaggc 120
tcctggcaaa aggtcagagt ctggatcacc ttctgctgga ggccacagca aacctcctca 180
cagcccactg gtcctcaaga ggtgccacgt ctccacacat cagcacaact acgcagcgcc 240
tccctccact cggaaggact atcctgctgc caagagggtc aagttggaca gtgtcagagt 300
cctgagacag atcagcaaca accgaaaatg caccagcccc aggtcctcgg acaccgagga 360
gaatgtcaag aggcgaacac acaacgtctt ggagcgccag aggaggaacg agctaaaacg 420
gagctttttt gccctgcgtg accagatccc ggagttggaa aacaatgaaa aggcccccaa 480
ggtagttatc cttaaaaaag ccacagcata catcctgtcc gtccaagcag aggagcaaaa 540
gctcatttct gaagaggact tgttgcggaa acgacgagaa cagttgaaac acaaacttga 600
acagctacgg aactcttgtg cgtaaggaaa agtaaggaaa acgattcctt ctaacagaaa 660
tgtcctgagc aatcacctat gaacttgttt caaatgcatg atcaaatgca acctcacaac 720
cttggctgag tcttgagact gaaagattta gccataatgt aaactgcctc aaattggact 780
ttgggcataa aagaactttt ttatgcttac catctttttt ttttctttaa cagatttgta 840
tttaagaatt gttttaaaa aatttttaaga tttacacaat gtttctctgt aaatattgcc 900
attaaatgta aataacttta ataaacgtt tatagcagtt acacagaatt tcaatcctag 960
tatatagtac ctagtattat aggtactata aaccctaatt ttttttattt aagtacattt 1020
tgcttttttaa agttgatttt tttctattgt ttttagaaaa aataaaataa ctggcaaata 1080
tatcattgag ccmaatctta aaaaaaaaaa aaaaaggtc gagccggccg gctaattagt 1140
agtagtaggc gccgc                                                   1155

<210> 707
<211> 1417
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1378)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1404)
<223> n equals a,t,g, or c
```

<400> 707

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tgagaccctg tctcaataat aataataata ataataatag taataatgaa gtaaatggga 60
taaggaaaga argataatta tctttaaagg ttgattccca ccctccctcc ccagttactt 120
aaggaactaa gtgagtacat ctccagttgc ccatgaaagc ataagtttgt tttcctcagc 180
tgaggcaagt ggtagagtat acaggataac gaagtaacat gtaaaaggca ggacgcacat 240
aaaggtgtac atggctattg tttcacctgg agaaaccaca tgattgggac ctgaaggttt 300
actgactgac tacaggggct gattgtgaag cacgaggaac cccatgtgtg tggagactgt 360
agggtgagag cacacaatta ttagcatcat ttctgagtga tctcacagat ttttttcttt 420
gtgtttgttt tgctttttga caactgcttc tcccacgttc cttgcaattc tattctctca 480
ccttcacttt actatttgta ttcgatggac caggataatt caggcaaggt taccttgtaa 540
acttgaattg gccacacacc atgttgtcac ccagctggct atgaagtgaa taatggtact 600
gaaagtaaac ctgaagacct ttctcagatc tattttaagt ctgagtctga ccaaccatgg 660
aaaatattcg acatgaatta atgtagagaa ctataaagca tttatgacag ctccaagaaa 720
aatcatctac tctatgcagg agatatgttt agagacctct cagaaaaact tgcctggttt 780
gagggtacac agtaccattt taatcttctg aaaatatctg tattcctgct ctttttctgc 840
tgtcactgtc aatctgctat attttcact atcctattaa aatattactg tctcctttat 900
ctgttcaatg tccatatttt aaaaaaatct tccttgtatg agctattctg atccaaataa 960
tttctctgat atttctctat atggctccca caacaatttc attgttgtta gcatatctat 1020
ttctccatac attgtaaaac tgtaatcctt aggtatttct aaaacataaa gaggagaatt 1080
aagtcagctg cagaacaatg gggctgawtc ytctgctttt tctctggaaa atctttcatt 1140
gcttttggtg gaaatttacc tagaggttac aaccacagga tgtagcttgg tctcttattt 1200
gccttttttgg gaaaccaatt aagattaata caggataaag gaaaaaagca atctattcat 1260
tatataacac agttgtttgt attacttgtt ccctgcaaag gcaaatctgt tgaatgcttg 1320
cattttggaa ttcttttcta ataggaacaa ccaaaaaagg gcttcttatg ggtgcagncg 1380
ggaaaaaagg tncatttttnt tggnttgcat tcttaac 1417
```

<210> 708
<211> 948
<212> DNA
<213> Homo sapiens

<400> 708

```
ggtagacagt gtgtctcact agggtggggtt atcagaaaaa ggctctacaa agtgacattt 60
aaagactgag aggaaaggag agagttgtat cctaccaatg attgcctccc ctctcccaca 120
tattaatgta ttacttaaag gaactgattt tttaaaattg gattgaatca tggaaacatt 180
ctttgagaat atggaaataa tttaatattt ttcccgtttc cagctcttca gctgtaacag 240
tgactcaaaa tcaattacat taagattagt ttttttgtty tggtttttt tttaagwact 300
ttgtgctttaa aatataagkg aaaatactgk atttactttt gtgtgcttcc atctgaacta 360
aagtttccca tggygcttac cgagttaggt ctggctctgg gagaggagtg gacagcagct 420
ggttgagata catccccatc tggagacagg actgccactg acagaagatg tgagctgtgt 480
ctaagtccag tcttgtgccc agccgtgtct gcgccttcac tctttggaac tctgcataca 540
acatcttagc accatcttcc tgcagctctt ccttacctaa ataaagaaac agcccaaggg 600
cagtatttct aaaagcactg taacagcttt tcattttctc cacatatact acaaattcta 660
taaagaaaga aattaatttta aaaaaactaa gatgtttttc tcttctggct tcataaatgc 720
cttgctgtat aaattgaaat attgatactg aactgtcttt ttaatgatga cctaacttta 780
ttcaacccat cggaatttac ttttttcccctg aaataagatc ttttccactg gtctactacc 840
tgaccataaa catgtctgca tttgaattct ctaaacccta aatctgtgtc tatgaaaaat 900
acaaatgact attaaatatt attctcttta ctgttctctt tcaccgaa 948
```

<210> 709
<211> 1329

```
<212> DNA
<213> Homo sapiens

<400> 709
ggcacgaggg gagtgctgtc gtgggggatt gtgggaaaag atggcggctg ccgcacaatc 60
ccgggttgtc cgggtcctgt caatgtcacg ttctgccatt actgcaatag ccacatctgt 120
gtgtcacggc ccaccctgtc gccagcttca tcatgccctc atgcctcatg ggaaaggtgg 180
acgttcctca gtcagtggga ttgtggccac tgtgtttgga gcaacaggat tcctggggcg 240
atatgttgtc aaccaccttg gacgcatggg gtcacaggta atcataccct atcggtgtga 300
taaatatgac atcatgcacc ttcgtcccat gggtgacctg gccagcttc tgtttctgga 360
atgggacgcg agagataaag attctatccg acgagtagta caacacagca atgtggtcat 420
caatcttatt ggacgagact gggaaaccaa aaactttgat tttgaggatg tttttgtgaa 480
gattccccaa gcaattgctc aactgtccaa ggaagctgga gttgaaaaat tcattcatgt 540
ttcacatctg aatgcgaata ttaaaagctc ttctagatat ttgagaaata aggctgttgg 600
agagaaagta gtgagagatg catttccgga agccattatc gtaaagccgt cggacatctt 660
tggaagagag gatagattcc ttaattcttt tgcaagtatg catcggtttg gtcctatacc 720
ccttggttcc ttgggctgga agacagttaa acaaccagta tatgtcgtag atgtatccaa 780
aggaattgtt aatgcagtta aggatcctga tgccaatggg aaatcctttg ctttcgttgg 840
tcccagtcgg tacctccttt tccacctggt gaagtacatc tttgctgtgg ctcacagatt 900
gttcctccca ttccccttgc cgctttttgc ctatcgatgg gtagcaagag tctttgaaat 960
aagcccattt gagccctgga taacaaggga taaagtggag cggatgcaca tcacagacat 1020
gaaattgcct cacctgcctg gcttagaaga ccttggtatt caggcaacac cactggaact 1080
caaggccatt gaggtgctgc ggcgtcatcg cacttaccgc tggctgtctg ctgaaattga 1140
ggatgtgaag ccggccaaga ccgtcaacat ttagtgcctc ctgagcagct cttggttttg 1200
gcgtcttttg ggtcggccca tgtggtttga gcacccagcc aggcggtctc tttagaggat 1260
cctgtacaca gttccactat taaaacattt caggttgaaa aaaaaaaaa aaaraaaaaa 1320
raaaaaaaa                                                           1329

<210> 710
<211> 534
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (529)
<223> n equals a,t,g, or c

<400> 710
attctgactt tggttttgat tctggtttgg tataaactgt aaaagtgtgt gtgtgccctt 60
tttacctgtt ctttgttttg tggtgtgtgt atggtgtgag tgtggtgttt tgtcttgagg 120
aagcatgggt caggcacaaa gtaagcccac cccaccagga actatgttga aaaatttcaa 180
gaaaggattt raggggagatt acggtgttac tatgacacca ggaaaactta ggactttgtg 240
tgaaatagac tggccagcat tagaggtggg ttggccatca gaaggaagcm trgacaggtc 300
ccttgtttca aaggtatggc acaaggtaac ctgtaagcca gggtgcccag accagttccy 360
gtacatagac acttggttac agctggtttt agrcccttcc taccccacg gtggttgaga 420
gaacagcagc ataagcagct ggcagaggca aggaaagacc agcaaagaga cagagaagaa 480
agagacagga aaagaggcaa agagagagaa gaagagagag aggaagagnc agag     534

<210> 711
<211> 1143
```

```
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1110)
<223> n equals a,t,g, or c

<400> 711
aaatgctcca gggnatcgtc ccaacaactt aaaggaggct naacacctgt tgcacgcctg 60
ctcatggcag cgcttgnaga aatgactggg ggagtccagc gaggtcgggg acgcagcggt 120
ctccaggctc cagaaacctc cttagccttt tgtggtaact ttggtccggc ggcggggggc 180
cggtgagcag gaactggagg gaggcggtgg ggaaaccgtg gatccgtccg gctgagggtg 240
cgtggatcag actgggctga gcaggcaagt catcgtcggg tcacagcgag gcgacccagg 300
agcgaacttc cagggcagcc tcccttttgt tggcgctggg agagaatgtg ggcatggggg 360
tggggaggcg cgaagctccg aggccgggcc gcggatactt taaagctcag agctgggagg 420
gcccaaagga aggggcggcg tscmcatggt taccccttctg tgcgcgggtc aagtagcttc 480
ttctggaggg cgcaaggcgc ggcggggggtg atgagccctt gggttctcgc tccgactgct 540
aaattcgctt ggccgggtcc accttctcgt ggcctcactc gccacacgga tcagaatccg 600
gagcaggcag ttctctctat tctgaggctc ctgcggctgc cgcgctgact tccctgtgtg 660
cgggagggaa ctctgggcag gctggttttc ttggaatgtg tttacgatgt tgaatgggac 720
ttgaacagga agctggacgc tgcagctgga actagcgtgc caagttattt atgattccat 780
ctgatataca taggagagaa actgatagaa gaattctgat ggcaactgta tgatagaagc 840
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<210> 712
<211> 3779
<212> DNA
<213> Homo sapiens

<220>
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<210> 713
<211> 1036
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)
<223> n equals a,t,g, or c

<220>
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<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1017)
<223> n equals a,t,g, or c

<400> 713
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<210> 714
<211> 4443
<212> DNA
<213> Homo sapiens

<400> 714

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<210> 715
<211> 2099
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2096)

<223> n equals a,t,g, or c

<400> 715

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<211> 574
<212> DNA
<213> Homo sapiens

<220>
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<222> (507)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (537)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (547)
<223> n equals a,t,g, or c

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<210> 717
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<212> DNA
<213> Homo sapiens

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tgaactggca gacgaggaag tataacacca aagccgccta ctgccagagc aagcttgcca 720
tcgtcctctt caccaaggag ctgagccggc ggctgcaagg tacgggggcg ctaggctcgg 780
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<210> 718
<211> 2086
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1863)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (1913)
<223> n equals a,t,g, or c

<400> 718
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gagaagcctg gggcttgccc tggctctctg tctcctccca tcgggaggaa cagagagcca 180
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gctaaactcc aatggttcag tgactgtggt tgctcttctt caagccagct gatacctgtg 300
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tgtctggact cttttaaatg gaagcaaaga tgacttcctc atatatgata gatgtggccg 540
tcttgtatat catcttggtt tgccttttc cttcctaact ttcccatatg tagaagaagc 600
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gacgggggat atacacggga aaaaacgttc gggccttgag ttcggcggct ggggttgcta 2040
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<210> 719
<211> 2418
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2401)
<223> n equals a,t,g, or c

<400> 719
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aggcagctcc aaacagcagt ctgaggagga cctgctcctg caggatttca gccgcaatct 180
ctcggccaag tcctccgcgc tcttcttcgg aaacgcgttc atcgtgtctg ccatccccat 240
ctggttatac tggcgaatat ggcatatgga tcttattcag tctgctgttt tgtatagtgt 300
gatgaccta gtaagcacat atttggtagc ctttgcatac aagaatgtga aatttgttct 360
caagcacaaa gtagcacaga agagggagga tgctgtttcc aaagaagtga ctcgaaaact 420
ttctgaagct gataatagaa agatgtctcg gaaggagaaa gatgaaagaa tcttgtggaa 480
gaagaatgaa gttgctgatt atgaagctac aacattttcc atcttctata acaacactct 540
gttcctggtc gtggtcattg ttgcttcctt cttcatattg aagaacttca accccacagt 600
gaactacata ttgtccataa gtgcttcatc aggactcatc gccctcctgt ctactggctc 660
caaatagacc atgtcagctt cacccctgg ctttgtgtct atgggtggcc tgtggtatat 720
ggaaaagtag cagggtggtc agggtgggag acacaagatg tttttatagt ctagagcctt 780
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aatgtcttgc aatgtgctgt aatcacaaga ggagaaaata acttgtttcc ttgatctgtc 960
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cagaatgaat cctcttccca ggggattgaa cagaagctta atgtttacaa gtgtttgaat 1140
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naggtttgcc agttgagt                                                  2418
```

<210> 720
<211> 2541
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1209)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2527)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (2538)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2540)
<223> n equals a,t,g, or c

<400> 720
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cagcacccga cagctacaaa gtgcaagata agaaaaatgc ctccagccgc cctgcctctg 120
caatttcagg acaaaataac aaccactcag gaaataaacc agaccctccg cctgtgttac 180
gtgttgatga ccggcagcgg ctggcccggg agcgacgtga ggaacgggag aaacagctag 240
ctgcaagaga aatagtgtgg ttagaaagag aagagcgagc caggcagcac tacgagaagc 300
acctggaaga gcggaagaag aggttggagg agcagaggca gaaggaggag cggaggaggg 360
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gcccatggga gagcagcgtt gttaacagac tcctgacgcc cacacattcg ttcctggcca 600
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tcattcttca atactttaaa atggcttttt ccagtgtgct ccttcttagc aatcaatatt 2400
tttctgcatt cttttaaaaga caagagaatt tgggttataa aagaaatggg ctgactargc 2460
akgatttttt kggtcttaaa agcttaacat gtaaaattgg caaaaaaaaa aaaaggdggg 2520
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ggccgcncta aaggaccnan g                                    2541

<210> 721
<211> 2171
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1996)
<223> n equals a,t,g, or c

<400> 721
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tctggtggag ttttatgccc catggtgtgg acactgcaag aaacttgccc ccgagtatga 120
gaaggccgcc aaggagctca gcaagcgttc tcctccaatt cccctggcaa aggtcgacgc 180
caccgcagaa acagacctgg ccaagaggtt tgatgtctct ggctatccca ccctgaaaat 240
tttccgcaaa ggaaggcctt atgactacaa cggcccacga gaaaaatatg gaatcgttga 300
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cccagcctac cagcaatacc aggatgccgc taacaacctg agagaagatt acaaatttca 480
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gggctccacc caggactcgg ccatcaagga cttcgtgctg aagtacgccc tgcccctggt 660
tggccaccgc aaggtgtcaa acgatgctaa gcgctacacc aggcgccccc tggtggtcgt 720
ctactacagt gtggacttca gctttgatta cagagctgca actcagtttt ggcggagcaa 780
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gccagtgccc aagaacaaca agggacccgt caaggtcgtg gtgggaaaga cctttgactc 1080
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agagctgcca ctgagcagcc ctgccagggg tgctgtttca ggctgggcat cscaggcggc 1920
ctccctgcaa accaagggct gggggcaaag gggcatgatc caggtccccc cagggtgggc 1980
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tcagctccag ggagangcca cccacgtggc agccccacct cttgagagcc cccagtgccg 2040
gagcagaaag gaccctggac ccagaggcag atactgcggg gtggtagaaa aggtagagta 2100
ggctgtggca atggaataaa acacgattaa aaacgttaar aaaaaaaaaa aaaaaaaaaa 2160
aaaaaaaaaa a                                                      2171
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<210> 722
<211> 1888
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (787)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1875)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1878)
<223> n equals a,t,g, or c

<400> 722
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gggctgcagg aattcggcmg mggcggggtg ggtgcaagat gccgctgccg gttcaggtgt 60
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agaatgcacc tgacgtcaac tacgtggtgg agaaccccag cctggatctg gaacagtacg 180
cggccagcta cagcggcctg atgcgcatcg aacggctgca gttcattgct gatcactgcc 240
ccacgctgcg ggtggaggcc ctgaagatgg ccctctcctt cgtgcagaga acctttaacg 300
tggacatgta cgaggagatc caccgcaagc tctcagaggc caccagggag ctgcagaacg 360
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aggccacgcg gaagaaggcg ctgctgaagc tggagaagct ggacacagac ctgaagaact 480
acaagggcaa ctccatcaaa gagagcatcc ggcgcggcca cgacgacctg ggcgaccact 540
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catgatgctg cgggcagctg tgctccgcaa ccagatccat gtcaagtccc cgcccagaga 1440
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aggggtgaac cttggcctcc aggacatctg caccccctcc ccacctccac ggacctcgga 1560
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ccagcctgtg tgccctccct ggggctgagg aggcaggcgg ctgctagttg tggcccttcc 1680
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gcggcaccca ggcccagtgg caccatttcc cagacccctc ctgttcccgc ctcagtcagg 1800
tgcagacaag tgggcggtgt ccattaaaga gcagactcag cgttaaaaaa aaaaaaaaa 1860
aaaaaaaaaa aaccncgngg ggggcccc                                    1888
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<210> 723
<211> 980
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (968)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (972)
<223> n equals a,t,g, or c

<400> 723
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tctcgaactc ctgacctcaa gtggtccgtc tggctcggcc tcccaaggtg ctgggattac 180
aggtgtgagc cactgcacct ggcctatata ggctttttc ttaaacctat ttagtaatgt 240
tttcccaagt ttattttta tttttaattt tttccccaag tttatttttc tatttttttt 300
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<210> 724
<211> 1812
<212> DNA
<213> Homo sapiens

<400> 724
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<210> 725
<211> 974
<212> DNA
<213> Homo sapiens

<400> 725
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ccccatacga agcagtgcac aggcacccct atccttgcag caaggccctg gccgagtggc 180
tggtcctgga ggccaacggg aggaaggtcc gtggggggct gcccctggtg acgtgtgccc 240
ttcgtcccac gggcatctac ggtgaaggcc accagatcat gagggacttc taccgccagg 300
gcctgcgcct gggaggttgg ctcttccggg ccatcccggc ctctgtggag catggccggg 360
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cagccctgat gggcggccag gtatacttct gctacgatgg atcaccctac aggagctacg 480
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cagtgacggt ggggctgggg cctggaggcc cagatacagc acatccaccc aggtcccgag 840
ccctcacacc ctggacggga aggacagct gcattccaga gcaggaggca gggctctggg  900
gccagaatgg ctgtccttgt cgtagagccc tccacatttt cttttctttt tttgagacag 960
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<210> 726
<211> 1508
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<400> 726
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ccacccatct cgaagcccct cggcccagga acccagggga agctgctgcc ctagcaatcc 180
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gcacttctcc cgacctactg gggcaaaccg aaggcgcccg ggagccggtc tctctgarga 300
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cagaagcctg cccccacctc ctccttcttg tgaactgagc tgccttagaa gggccggagg 420
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<210> 727
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<211> 2004
<212> DNA
<213> Homo sapiens

<400> 727
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agaacaagca gcaaaagcaa ttgagtttct taacaaccca ccagaagaag caccaagaaa 540
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atatgatgta taccacaatt tttcttaaac attttatttg ttgaaattat cttagatgtc 1920
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<210> 728
<211> 1470
<212> DNA
<213> Homo sapiens

<400> 728
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cctactgtgc caccatggtc cagcactgtg aagccctcaa ccggtctgtc caagttgtaa 180
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<210> 729
<211> 1755
<212> DNA
<213> Homo sapiens


<400> 729
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cgtgaaaaaa aagacctgct ttgccctggg aaatagtaac cctgccaaat acatcagctt 180
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agtagtgatt gttct                                                  1755


<210> 730
<211> 437
<212> DNA
<213> Homo sapiens


<400> 730
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tgtgaaaaca gaaggttgtt ccaccgagat tcacatccag attggacagt ttgtgttgat 360
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<210> 731
<211> 3663
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (3583)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (3601)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (3619)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (3648)
<223> n equals a,t,g, or c


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ataccatcaa tggtcataat gcagaagtaa gaaaggcttt gtctagacaa gaaatgcagg 180
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gaccaggtta atttgtttct atgataattt gttttggttt tgataatgtg aggtatctaa 3420
caggtaagtc aaatttaaca gcaggtaaca catagaaagc agctttctgt ttgaaatagc 3480
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tta                                                                3663
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<210> 732
<211> 2017
<212> DNA
<213> Homo sapiens

<400> 732

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ctcgtcgccg tggcgccatg ggtgttgtcc gcagccgcag gtggaaaaaa tctaaaatct 180
cctcaaaaag tagaggtcga catcatagat gacaacttta tcctgaggtg gaacaggagc 240
gatgagtctg tcgggaatgt gactttttca ttcgattatc aaaaaactgg gatggataat 300
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aagctgaatg tttatgaaga aattaaattg cgtataagag cagaaaaaga aaacacttct 420
tcatggtatg aggttgactc atttacacca tttcgcaaag ctcagattgg tcctccagaa 480
gtacatttag aagctgaaga taaggcaata gtgatacaca tctctcctgg aacaaaagat 540
agtgttatgt gggctttgga tggtttaagc tttacatata gcttasttat ctggaaaaac 600
tcttcaggtg tagaagaaag gattgaaaat atttattcca gacataaaat ttataaactc 660
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gaaaatatag aagtcagtgt ccaaaatcag aactatgttc ttaaatggga ttatacatat 840
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tgtttaggga aagaaaaaac atcttcagat catagtcct aaaaatacgg gcaagctctt 1920
aactatttaa aatggaatta caggccgggc acgtggctca cactgtaatc cagcactttg 1980
gaggctgagg aggcagacat gaggtcagag atcgaga                           2017
```

<210> 733

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<211> 2004
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2001)
<223> n equals a,t,g, or c

<400> 733
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ttccccccgc atcgcctccc gtggaagccc aggcccgctt cgcagctttc tcccttgtc 120
tcataaccat gtccaccaac gagaatgcta atacaccagc tgcccgtctt cacagattca 180
agaacaaggg aaaagacagt acagaaatga ggcgtcgcag aatagaggtc aatgtggagc 240
tgaggaaagc taagaaggat gaccagatgc tgaagaggag aaatgtaagc tcatttcctg 300
atgatgctac ttctccgctg caggaaaacc gcaacaacca gggcactgta aattggtctg 360
ttgatgacat tgtcaaaggc ataaatagca gcaatgtgga aaatcagctc caagctactc 420
aagctgccag gaaactactt tccagagaaa aacagccccc catagacaac ataatccggg 480
ctggtttgat tccgaaattt gtgtccttct tgggcagaac tgattgtagt cccattcagt 540
ttgaatctgc ttgggcactc actaacattg cttctgggac atcagaacaa accaaggctg 600
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acttggttat taagtacggt gcagttgacc cactgttggc tctccttgca gttcctgata 780
tgtcatcttt agcatgtggc tacttacgta atcttacctg gacactttct aatctttgcc 840
gcaacaagaa tcctgcaccc ccgatagatg ctgttgagca gattcttcct accttagttc 900
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ggaatattgt cactggtaca gatgaacaga ctcaggttgt gattgatgca ggagcactcg 1140
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caatgtcaaa catcacagcc ggccgccagg accagataca gcaagttgtg aatcatggat 1260
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tggttatcct ggatgccatt tcaaatatct ttcaggctgc tgagaaacta ggtgaaactg 1500
agaaacttag tataatgatt gaagaatgtg gaggcttaga caaaattgaa gctctacaaa 1560
accatgaaaa tgagtctgtg tataaggctt cgttaagctt aattgagaag tatttctctg 1620
tagaggaaga ggaagatcaa aacgttgtac cagaaactac ctctgaaggc tacactttcc 1680
aagttcagga tggggctcct gggacccttta actttttagat catgtagctg agacataaat 1740
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aatgtggttt gttactgtag cacttttttac actgaaacta tacttgaaca gttccaactg 1860
tacatacata ctgtatgaag cttgtcctct gactaggttt ctaatttcta tgtggaattt 1920
cctatcttgc agcatcctgt aaataaacat tcaagtccac cctttcttg acttcaaaaa 1980
aaaaaaaaaa aaaaagggg nggc 2004

<210> 734
<211> 1128
<212> DNA
<213> Homo sapiens

<220>
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<221> misc feature
<222> (1105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1117)
<223> n equals a,t,g, or c

<400> 734
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tgacgagctt ttctctactt gtgtcactaa cggaccgttt atcatgagca gcaactcggc 180
ttctgcagca aacggaaatg acagcaagaa gttcaaaggt gacagccgaa gtgcaggcgt 240
cccctctaga gtgatccaca tccggaagct ccccatcgac gtcacggagg gggaagtcat 300
ctccctgggg ctgccctttg ggaaggtcac caacctcctg atgctgaagg ggaaaaacca 360
ggccttcatc gagatgaaca cggaggaggc tgccaacacc atggtgaact actacacctc 420
ggtgaccccct gtgctgcgcg gccagcccat ctacatccag ttctccaacc acaaggagct 480
gaagaccgac agctctccca accaggcgcg ggcccaggcg gccctgcagg cggtgaactc 540
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gatggccggg cagagccccg tgctcaggat catcgtggag aacctcttct accctgtgac 660
cctggatgtg ctgcaccaga tttttctccaa gttcggcaca gtgttgaaga tcatcacctt 720
caccaagaac aaccagttcc aggccctgct gcagtatgcg gaccccgtga gcgcccagca 780
cgccaagctg tcgctggacg ggcagaacat ctacaacgcc tgctgcacgc tgcgcatcga 840
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acgcccagac ctgccttccg gggacagcca gccctcgctg gaccagacca tggccgcggc 960
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ctttgccatt cctcaagctg caggctttcc gttccgaacg tccacggsgc cctggcccct 1080
ggcgcgcacc gagccgcgct ggctnctgat cgctcanggc accgctgt            1128
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<210> 735
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (661)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (693)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (699)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (741)
<223> n equals a,t,g, or c

<400> 735
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gagcgtacca aacctgccca ccggctttgt agccccgatt ctctgtgttt tgctcccgtc 120
tccgacgaga gaggcggcga cggtggcgtc tgcgacggga gacagcgcgt cggagcgaga 180
gagcgctgcg cctgccgccg ccccaacagc ggaggcgccg ccgccatcgg tcgtcaccag 240
accggagccg cagcctcccg agcccggcca tccgtgcccc gctcccagat ctctatcctt 300
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tgcgtaaaaa aaagtgggat ttgagtgagc tccccaagtt tgagaaaaat ttttatgtgg 480
aacatccgga agtagcaagg ctgacaccat atgaggttga tgagctacgc cgaaagaagg 540
agattacagt gagggggggga gatgtttgtc ctaaaccgt gtttgccttc catcatgcta 600
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ngggtagact ttgacttgga gaaaaccaag atncttgcng cttggctcct ggtggtggcc 720
ccccatccca gctgtggcat ngcacacaca aggacacctt ttctaagtta tg         772


<210> 736
<211> 1099
<212> DNA
<213> Homo sapiens

<400> 736
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ctcggtggat ggtggctggt aakgccgacc ccgaaatgcc aaagaggatg tacattcacc 180
cggacagccc cgctactggg gaacagtgga tgtccaaagt cgtcactttc cacaaactga 240
aactcaccaa caacatttca gacaaacatg gatttacttt ggccttccca agtgatcacg 300
ctacgtggca ggggaattat agttttggta ctcagactat attgaactcc atgcacaaat 360
accagccccg gttccacatt gtaagagcca atgacatctt gaaactccct tatagtacat 420
ttcggacata cttgttcccc gaaactgaat tcatcgctgt gactgcatac cagaatgata 480
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atggccgaag agaaaaaaga aaacagctca ccctgcagtc catgagggtg tttgatgaaa 600
gacacaaaaa ggagaatggg acctctgatg agtcctccag tgaacaagca gctttcaact 660
gsttcgccca ggcttcttct ccagccgcct ccactgtagg dacatcgaac ctcaaagatt 720
tatgtcccag cgaggtgag agcgacgccg aggccgagag caaagaggag catggccccg 780
aggcctgcga cgcggccaag atctccacca ccacgtcgga ggagccctgc cgtgacaagg 840
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tggacaaagc gtcgcccgac tcacgccata gccccgccac catctcgtcc agcactcgcg 960
gcctgggcgc ggaggagcgc aggagcccgg ttcgcgaggg cacagcgccg gccaaggtgg 1020
aagaggcgcg cgcgctcccg ggcaaggagg ccttcgcgcc gctcacggtg cagacggacg 1080
cggccgcaag cttattccc                                            1099


<210> 737
<211> 3219
<212> DNA
<213> Homo sapiens

<220>
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<221> misc feature
<222> (3212)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3215)
<223> n equals a,t,g, or c

<400> 737
catatggttt tgcgtccatt cctccttcgt cgaattaagg ctgatgttga aaagagtttg 60
cctccaaaga aggaagtaaa aatctatgtg ggcctcagca aaatgcaaag ggaatggtat 120
actcggatat taatgaagga tatagatata ctcaactcag caggcaagat ggacaaaatg 180
aggttattga acatcctaat gcagttgagw raatgttgta atcatccata tctctttgat 240
ggagcagaac ctggtccacc ttatacaaca gatatgcatc tagtaaccaa cagtggcaaa 300
atggtggttt tagacaagct gctccctaag ttaaaagaac aaggttcacg agtactaatc 360
ttcagtcaaa tgacaagggt attggacatt ttggaagatt attgcatctg gagaaattat 420
gagtactgca ggttggatgg tcagacaccc catgatgaga gacaagactc catcaatgca 480
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ttccgcttta taactgataa cactgtagaa gaaagaatag tagaacgtgc tgagatgaaa 720
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gctgtgtttt gggaaaggtg caacgagctc caggacatag agaagattat ggctcagatt 1560
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ataggcttca tttattacta agtgtttcat ttgatttatt tttctattgt agttccattt 2280
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gaggccttta tgtgctacac ataatttgta taaaatttta tatgtgcaga ttgggtacat 3120
aaacagttct ccattttttct aagggaatgc aataaatgta gcatcgtgaa taaatataac 3180
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<210> 738
<211> 849
<212> DNA
<213> Homo sapiens

<400> 738
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cgggcggtgg tgccgccaag accggtgcgg agctcgtgac ctgcgggtcg gtgctgaagc 180
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tccgcggcgg ctcggagggc gggtgcccgc gcgggtcccc ggtgcgctgc ggc ggcgg 360
tgaggctcac gcatgtgctt acgggcaaga acctgcacac gcaccacttc ccg  gccgc 420
tgtccaacaa ccaggaggtg agtgcctttg gggaagacgg cgaggcgac gacctggacc 480
tatggacagt gcgctgctct ggacagcact gggagcgtga ggctgctgtg cgcttccagc 540
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ggcagcatga ggtccacggc atgcccagtg ccaacacgca caatacgtgg aaggccatgg 660
aaggcatctt catcaagcct agtgtggagc cctctgcagg tcacgatgaa ctctgagtgt 720
gtggatggat gggtggatgg agggtggcag gtggggcgtc tgcagggcca ctcttggcag 780
agactttggg tttgtagggg tcctcaagtg cctttgtgat taaagaatgt tggtctatga 840
aaaaaagtc                                                         849
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<210> 739
<211> 2069
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2046)
<223> n equals a,t,g, or c

<400> 739
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cggagaaggc tgagggaatt gctatgaarg ggcgggagct gaagtgtaga ggactccttt 180
agacagcaga aagggaaagc cgttgagaag ttccttcaa actccacctg cctcctctcc 240
```

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aattcaaact ccactccctt ctccaaaagt taaaaggaaa gccaagtttg ccacgctccc 300
ctgttcctac tcaataaata cttcttctac tccgccaccg ggaaaacaga aaaaaaaaac 360
taatttcctt cccaatatta ggacttagaa aagctctagg tcccgcaayt tgaattttag 420
cctaggggaa tcaaaatagt aggagcatta ctcttgtttc cttttcaaa  atcccacacc 480
tcatccttcc tgcgacgcca tgtctaccaa catttgtagt ttcaaggaca ggtgcgtgtc 540
catcctgtgt tgcaaattct gtaaacaagt gctcagctct aggggaatga aggctgtttt 600
gctggctgat actgaaatag accttttctc tacagacatc cctcctacca acgcagtgga 660
cttcactgga agatgctatt tcaccaaaat ctgcaaatgt aaactgaagg acatcgcatg 720
tttaaaatgt gggaacattg tagkttatca tgtgattgtt ccatgtagtt cctgtcttct 780
ttcctgcaac aacrgacact tctggatgtt tcacagccag gcagtttatg atattaacag 840
actagactcc acaggtgtaa acgtcctact tyggggcaac ttgccagaga tagaagagag 900
tacagatgaa gatgtgttaa atatctcagc agaggagtgt attagataaa tggaattatg 960
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ttgttagttg ccagtgatct tttttggaaa acaaaaatgg ggcatttgtt gatttattta 1080
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atcctcttga ttgctcagca tgatgttaga taaatgagtt tgtcagaaaa tatcagtata 1560
cgctgtttac caatgttatt tatttacatt cttctaaagc cattatggat attgtattat 1620
gagagctaaa cctaaataag ttatcctgtt ccctaggacc ttctctgtaa atagtgaatt 1680
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gccattgtac attataaaga gctgttttgt tttgctttgc tttgctttgt tttgtttttt 1800
taaagctgca ttcagagcca caaaggaata ggaaagtagg gtagtgttgg attctggttt 1860
tatgtaactc taaaataaat gtatctcttt aatatctcag ttgtagggat tttgtcaata 1920
ccaaagcaga ctgagttgtg gttttgtaaa taaagttttt tctaaaaatg accattcttc 1980
ctttaatttt ttgttatgcc cacatattgt atgtaaaaat ataaataaat agtacttaaa 2040
gtatanaaaa aaaaaaaaaa aaaaaggtt                                   2069
```

```
<210> 740
<211> 1567
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1532)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1548)
<223> n equals a,t,g, or c

<400> 740
aaaaccgaga ggaagcagga agggcggagt ctcctatttg agtttgtggc gcgcgaggcc 60
ctgcagtccg ggttggcgct tgggtactgg  ctgggtccga tgctgggtac gctgcgcgcc 120
atggagggcg aggacgtgga agacgaccag ctgctgcaga agctcagggc cagtcgccgc 180
```

```
cgcttccaga ggcgcatgca gcggctgata gagaagtaca accagccctt cgaggacacc 240
ccggtggtgc aaatggccac gctgacctac gagacgccac agggattgag aatttggggt 300
ggaagactaa taaaggaaag aaacaaagga gagatccagg actcctccat gaagcccgcg 360
gacaggacag atggctccgt gcaagctgca gcctggggtc ctgagcttcc ctcgcaccgc 420
acagtcctgg gagccgattc aaaaagcggt gaggtcgatg ccacgtcaga ccaggaagag 480
tcagttgctt gggccttagc acctgcagtg cctcaaagcc ctttgaaaaa tgaattaaga 540
aggaaatact tgacccaagt ggatatactg ctacaaggtg cagagtattt tgagtgtgca 600
ggtaacagag ctggaaggga tgtacgtgtg actccgctgc cttcactggc ctcacctgcc 660
gtgcctgccc ccggatactg cagtcgtatc tccggaaaga gtcctggtga cccagcgaaa 720
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acatattgca aaggagccag acgttctcag aggagctcca aggagaactt cataccctgc 1080
tctgagcctg tgaaagggac aggggcatta agagattgca agaacgtatt agatgtttct 1140
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cataagttag atccaagttg gaaggagcgc aaagtgacac cctcgaagta ttcttccttg 1260
atttacttcg actccagtgc aacatataat cttgatgagg aaaatagatt taggacatta 1320
aaatggttaa tttctcctgt aaaaatagtt ccagaccaa caatacgaca gggccatgga 1380
gagaaccgtc agaggggagat tgaaatccga tttgatcagc ttcatcggga atattgcctg 1440
agtcccagga accagcctcg ccggatgtgc ctccccggact cctgggccat gaacatgtac 1500
agaggggggtc ctgcgaagtc ctggtggcct tnaggcttaa aaacccgnaa gctgagttaa 1560
ctttcag                                                          1567
```

<210> 741
<211> 2829
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1523)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1728)
<223> n equals a,t,g, or c

<400> 741
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gacgctgggg gcagaccaca tgtcagcagt gggtgtcgct tagtaatata ttgtgggtca 60
ttgttatttt cttnttttg tttacttgta tttcctaaat ttttctacaa tgaacttgta 120
ttaataagaa aaaaccataa aatttactgt ttttaaaaag ctgctctaag taatcagaca 180
gtcaaaagag caggaatcag ctctccagga ggctctttgg tctgggccg agggatgag 240
ggtgggtcct gaagacgtct gagtcccttg ttacaggagg gtgttcattg tgtcctcctc 300
```

```
acagctggga gaacagctga agcagctggt gcctgcaagc ggcctcacag tcatggatct 360
ggaagctgag ggcacgtgtt tgcggttcag ccctttgatg accgcagcag ttttaggaac 420
tcggggagag gatgtggatc agctcgtagc ctgcatagaa agcaaactgc cagtgctgtg 480
ctgtacgctc cagttgcgtg aagagttcaa gcaggaagtg gaagcaacag caggtctcct 540
atatgttgat gaccctaact ggtctggaat aggggttgtc aggtatgaac atgctaatga 600
tgataagagc agtttgaaat cagatcccga aggggaaaac atccatgctg gactcctgaa 660
gaagttaaat gaactggaat ctgacctaac ctttaaaata ggccctgagt ataagagcat 720
gaagagctgc ctttatgtcg gcatggcgag cgacaacgtc gatgctgctg agctcgtgga 780
gaccattgcg gccacagccc gggagataga ggagaactcg aggcttctgg aaaacatgac 840
agaagtggtt cggaaaggca ttcaggaagc tcaagtggag ctgcagaagg caagtgaaga 900
acggcttctg gaagagggg tgttgcggca gatccctgta gtgggctccg tgctgaattg 960
gttttctccg gtccaggctt tacagaaggg aagaactttt aacttgacag caggctctct 1020
ggagtccaca gaacccatat atgtctacaa agcacaaggt gcaggagtca cgctgcctcc 1080
aacgccctcg ggcagtcgca ccaagcagag gcttccaggc cagaagcctt ttaaaaggtc 1140
cctgcgaggt tcagatgctt tgagtgagac cagctcagtc agtcacattg aagacttaga 1200
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gggacaccca ggggctccca gccctcagca caccgaccag accgaggcct tccagaaagg 1320
ggtcccacac ccagaagatg accactcaca ggtagaagga ccggagagct taagatgaga 1380
ctcattgtgt ggtttgagac tgtactgagt attgtttcag ggaagatgaa gttctattgg 1440
aaatgtgaac tgtgccacat actaatataa attactgttg tttgtgcttc actgggattt 1500
tggcacaaat atgtgcctga aangtaggct ttctaggagg ggagtcagct tgtctaactt 1560
catgtacatg tagaaccaca tgtttgctgt cctactacga cttttcccta agttaccata 1620
aacacatttt attcacaaaa aacacttcga atttcaagtg tctaccagta gcacccttgc 1680
tctttctaaa cataagccta agtatatgag gttgcccgtg gcaacttntt tggtaaaaca 1740
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tcctttgctg tcggtctttta gtacgatcaa gttgcaatat acagtgggac tgctagactt 1860
gaaggagagc agtgattgtg ggattgtaaa taagagcatc agaagccctc cccagctact 1920
gctcttcgtg gagacttagt aaggactgtg tctacttgag ctgtggcaag gctgctgtct 1980
gggactgtcc tctgccacaa ggccatttct cccattatat accgtttgta aagagaaact 2040
gtaaagtctc ctcctgacca tatattttta aatactggca aagctttaa aattggcaca 2100
caagtacaga ctgtgctcat ttctgtttag tatctgaaaa cctgatagat gctaccctta 2160
agagcttgct cttccgtgtg ctacgtagca cccacctggt taaaatctga aaacaagtac 2220
ccctttgacc tgtctcccac tgaagcttct actgccctgg cagctcgcct gggcccaact 2280
cagaaacagg agccagcaga gcactctctc acgctgatcc agccgggcac cctgcttaag 2340
tcagtagaag ctcgctggca ctgcccgttc ctacttttcc gaagtactgc gtcactttgt 2400
cgtaagtaat ggcccctgtg ccttcttaat ccagcagtca agcttttggg agacctgaaa 2460
atgggaaaat tcacactggg tttctggact gtagtattgg aagccttagt tatagtatat 2520
taagcctata attatactct gatttgatgg gatttttgac atttacactt gtcaaaatgc 2580
aggggttttt ttttggtgca gatgattaaa cagtcttccc tatttggtgc aatgaagtat 2640
agcagataaa atggggggagg ggtaaattat caccttcaag aaaattacat gtttttatat 2700
atatttggaa ttgttaaatt ggttttgctg aaacatttca cccttgagat attatttgaa 2760
tgttggtttc aataaaggtt cttgaaattg ttaaaaaaaa aaaaaaaaa aaaaaaaaa 2820
aaaaaaaaa                                                      2829
```

<210> 742
<211> 926
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<400> 742
ggagacctcc tgacctttgg ccctgaagcn accgaggaac cagcccctcg gagttctact 60
tcatgttcca acaagtacga gtcaagcctc aggactttgc tgccattacc atcccacggt 120
ctaggggaga agcccgggtt ggggctggtt tccggcctat gctgccctcc caggggggctc 180
cacagcggcc tctcagcacc ttctcccctg cccccaaggc cacactgatc ckaaactcca 240
taggcagcct cagcaagctc cggccccagc ccctcacctt ctccctagt tggggtggac 300
caaagagcct gcctgttccc gccccacctg gggaaatggg gaccacgcct tctgctccac 360
cmcaacgcaa tcggaggaaa tctgttcacc gagtgttggc ggaactggat gatgagagtg 420
ıgcctcctga gaacccgcca ccggtcctta tggagcccan gaagaaactc cgtgtagaca 480
aagccccact gactcccact ggaaatcgac gtggccgtcc tcggaagtac ccagtgagcg 540
ctcccatggc tcccctgca gttgggggcg gggagccctg tgcagctcct tgttgctgcc 600
tgccccagga agagacagtg gcctgggttc agtgtgatgg ctgtgacgtc tggttccatg 660
tggcctgtgk kggctgcagc atccaggctg ccagggaggc cgacttcyka tgcccagggt 720
gccgggctgg cattcagacc taaggtccrc ygccaaggca ccatcggaca cacctgccca 780
tgagtagaca cagcagcgag caaataggtc tgataaatam ccccctcccc ttccctcccc 840
aagaggaatg actacaggga agaaggatgg attgatgtgg actcattcag gccttgagca 900
gaccctggtg gccaagacag aagaga   926

<210> 743
<211> 1017
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (599)
<223> n equals a,t,g, or c

<400> 743
aggggctgca gctgccaaac ccaataccct ctatttaacc cctactctgt tttacaagag 60
aaataaaaga agtatcagca gagctcaggt gctaacacct gttgagggct gacctacaaa 120
actctgccta caaaactctc ttagacaggt gaatatgcca ctagaagtta ggttgctggt 180
agacctgggg gtccctgcgg gagggtgatg gtttctttac caccccacag gagatttcag 240
tggcaaggca tgcctgcagt gggctttggg ccatgcatct tccaagtcca taggtcttca 300
cctgggtggc agtgagaaaa agtagaaagt aatgagcctc ctgtgtctct ggaaggttct 360
agggwtaggg tagagggaag aagagaacaa acaagcctgg cttgtgctga agtgtggtag 420
gcactaccct gtttgcgtga agagaaaaca aagcacctgt tagtagggag ctttaggggg 480
gaagccccgt cttgggggca tttctgggca gattgtgaat tggaggaatc tctttaactg 540
aagtactctg gctggaccct gcccttgtgt gaccatgtct cctattgcac cagcatttng 600
aattccatgg ctcaagaggg ttctggtacc atttattcac agactgtatc ctcgagagag 660
ctgctatata tgggagtgta ccagccaact ccttttccag tgtctgtaag tcacctcatt 720
aaagtataat tagctgtctc ctctgggaga tcctacccca tcagacaagg gcagtgagcc 780
caagcagtgc cagaggccct cagaaaggga ttagggtaga tgattgcaac tgaaacacaa 840

```
tcttctttct ttgccagggt attttggggg ttttgcccca aaatataccc tgggcatagc 900
attactgcag tcttggatgt ctaccccaaa cttccacacc atccttcgac ccacagctgc 960
acctttattt atttattttg ctccagcctg ggggacagag tgagacttcg tctcggg    1017
```

<210> 744
<211> 361
<212> DNA
<213> Homo sapiens

<400> 744
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ggtggccgct ggagtttgtg tggccgccgc cgcgggaacg cgagccggt aattttttcaa 60
cggagaaagg cgaggctttc gggctctgca gagtgagagt tagcaagtgt ccggctccag 120
ccggcatgga ggatccacag agtaaagagc ctgccggcga ggccgtggct ctcgcgctgc 180
tggagtcgcc gcggccggag ggcggggagg agccgccgcg tcccagtccc gaggaaactc 240
aacagtgtaa atttgatggc caggagacaa aaggatccaa gttcattacc tccagtgcga 300
gtgacttcag tgacccggtt tacaaagaga ttgccattac gaatggctgt attaatagaa 360
t                                                                 361
```

<210> 745
<211> 1936
<212> DNA
<213> Homo sapiens

<400> 745
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gggttttttac cccttctaaa ataagtttta ttccatctgc aaattgctgc aatattatag 60
taatcagaaa ctacataagg aatgttatat aggcttgtca gttcccattt ttcttgacaa 120
caataaatac cacttttaaa aatgacacat atttaaacac ttagaaaata aagttaacac 180
ttactgaagt gctagtacta aactgtgcta gtactaaaag aaaacaggtt ggaacataca 240
tatagcctag catttataac agaattgttg aacgysygya aatgattttt ttttttttt 300
gcaaaggaaa aaattgatac tggaaaagat tgttgtgcat agttattagt catttgtaac 360
cttgcttaag tatttcttag tccaacatag atatttcttt tctcctgacc atgtattta 420
aaatatagtc tatttcttga ctttgaactt aaagctttaa tcataawttc tcatgtatac 480
atcgttcttc tgatggtaag ctggatttga aggtagtggt ttcagtgttt cttaagttgg 540
tagctgaggg tatcaggcat cagttcatgc aataatacaa gaaaaaaaat cctttgcttg 600
ccaagaggta gagtgatgtg catttatctg ttttctgttc tgtaagtcta gaccttcaaa 660
ccatttgtaa actaacccct gggaaatttg aaattacctg ataacttaag actctgtgat 720
ctctggaatc accatatgtt tcttttttgt gtagatatta ataacattac tctttgacta 780
tagtgtgcac tctgaaatgt actcagtgaa aatttgtttt gagtttcatt aatgctattt 840
caccagttag acataattac ttctaccgat gtgaatgata cggatgccgg cagagcttcc 900
agatctttca gactcaactg ctaggtcaat tagtttgtca taataaaact tggcagattc 960
tacaagtcta ttatgacaaa ccaggaacta attctataat ggaaactat ccattctgaa 1020
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taaactctgt gcctactaaa ggtatcttct ggagtttttg ggaggagaga aactggaaaa 1140
ttaaattgta tttttgccag aagactctta cttgcatgtg tctcagggtc ttcagttttt 1200
ctataagttt ccatatccaa agttcagaat tcatgtgaaa tacttctttg gggcaaaagt 1260
ccttcattcc tggtatttat tggattggaa atctgtagca agatgctgtt taaaattacc 1320
atattgtttt tttatcttat acttagctct ctggctattg aacttccttt tcttgtttga 1380
agttagcttc aaatttgctc ctatgctaaa ttacctgtaa atattctgga taggaactac 1440
ttgaaatagt aatttgttaa aagatatgac aaaatgaaaa tgcttaaact acagaaattt 1500
aaaaatgcca taacaatctt gcgagactaa ctttaaaata tactttaaat gattattatg 1560
attttggtgg taacgatccc ccacacacaa ccactatgaa gaaataatgc cgcatttttc 1620
```

```
ccccattgta ccaaaaagat aaaaaaatgg taaacactga tcaaggtatt ttgtattgtc 1680
aaggcatgca tattctaaag aattaaatgc taacttaaca gcactggctt tctggctggt 1740
caactatatg aaaccttgtt cattcctccg agtactgtaa tgttcacact tgtacaatct 1800
tccctgtcat gactttaagt tctacttttc attaaccatg gcctgatatt agttcttaga 1860
gcttcttgtg gcaaaaataa aatgatttaa ttctgaaaaa aaaaaaaaaa aaaaaaaaaa 1920
ctcgagacta gttctc                                                1936
```

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<210> 746
<211> 1619
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1565)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1567)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1568)
<223> n equals a,t,g, or c

<400> 746
ggcggaggag agccgtgcgc acggcgtatg tggggccgtg tgcagacccg cgtgtggcgc 60
aggcaaggac cctcaaaata aacagcctct accttgcgag ccgtcttccc caggcctgcg 120
tccgagtctc cgccgctgcg ggcccgctcc gacgcggaag atctgactgc agccatgagc 180
agcaatgagt gcttcaagtg tggacgatct ggccactggg cccgggaatg tcctactggt 240
ggaggccgtg gtcgtggaat gagaagccgt ggcagaggtt ccagtttgt ttcctcgtct 300
cttccagata tttgttatcg ctgtggtgag tctggtcatc ttgccaagga ttgtgatctt 360
caggaggatg gcctgctata actgcggtag aggtggccac attgccaagg actgcaagga 420
gcccaagaga gagcgagagc aatgctgcta caactgtggc aaaccaggcc atctggctcg 480
tgactgcgac catgcagatg agcagaaatg ctattcttgt ggagaattcg gacacattca 540
aaaagactgc accaaagtga agtgctatag gtgtggtgaa actggtcatg tagccatcaa 600
ctgcagcaag acaagtgaag tcaactgtta ccgctgtggc gagtcagggc accttgcacg 660
ggaatgcaca attgaggcta cagcctaatt attttccttt gtcgcccctc cttttctga 720
ttgatggttg tattattttc tctgaatcct cttcactggc caaaggttgg cagatagagg 780
caactcccag gccagtgagc tttacttgcc gtgtaaaagg aggaaagggg tggaaaaaaa 840
ccgactttct gcatttaact acaaaaaaag tttatgttta gtttggtaga ggtgttatgt 900
ataatgcttt gttaaagaac cccctttccg tgccactggt gaatagggat tgatgaatgg 960
gaagagttga gtcagaccag taagcccgtc ctgggttcct tgaacatgtt cccatgtagg 1020
aggtaaaacc aattctggaa gtgtctatga acttccataa ataactttaa ttttagtata 1080
atgatggtct tggattgtct gacctcagta gctattaaat aacatcaagt aacatctgta 1140
tcaggcccta catagaacat acagttgagt gggagtaaac aaaaagataa acatgcgtgt 1200
taatggctgt tcgagagaaa tcggaataaa agcctaaaca ggaacaactt catcacagtg 1260
ttgatgttgg acacatagat ggtgatggca aaggtttaga acacattatt ttcaaagact 1320
aaatctaaaa cccagagtaa acatcaatgc tcagagttag cataatttgg agctattcag 1380
```

```
gaattgcaga gaaatgcatt ttcacagaaa tcaagatgtt atttttgtat actatatcac 1440
ttagacaact gtgtttcatt tgctgtaatc agttttttaaa agtcagatgg aaagagcaac 1500
tgaagtccta gaaaatagaa atgtaatttt aaactattcc aataaagctg gaggaggaag 1560
ggganannaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg  1619
```

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<210> 747
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (476)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c


<400> 747
aattcggcac sgcgcaggag gacggagccc taaccgcaac ccgcgccgcg ccgngccgat 60
ttgatttgta tccactgtca ccagcactgc tcacttagga ctttctggat ccggacccag 120
gcagcgcaca ctggactctt gaggaagaag gagactctaa ttttggattc cttggtggag 180
gaaaataaaa cactctggtc ttgccgccaa cgatgcaagt gtgactgctg gcgtcttcat 240
gagctccaga ggtcacagca cgctaccaag gactctcatg gcccctcgga tgatttccga 300
gggagacata ggaggcattg ctcaaatcac ctcctctcta ttcctgggca gaggcagtgt 360
ggcctccaat cggcacctyc tccaggctcg tgggtatcac ctgcattgtt aatgstacca 420
ttgagatccc taatttcaac tggccccaat ttgagtatgt taaagtgcct tggtgnacat 480
gccccattgg nt                                                     492
```

```
<210> 748
<211> 603
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (598)
<223> n equals a,t,g, or c


<400> 748
cccgccgcca cccggcagta gttgcggagg tcagccccgc ctacttcctc tttccctcgg 60
agcgggcggc ggcgttggcg gcttgtgcag caatggccaa gatcaaggct cgagatcttc 120
gcgggaagaa gaaggaggag ctgctgaaac agctggacga cctgaaggtg gagctgtccc 180
agctgcgcgt cgccaaagtg acaggcggtg cggcctccaa gctctctaag atccgagtcg 240
```

```
tccggaaatc cattgcccgt gttctcacag ttattaacca gactcagaaa gaaaacctca 300
ggaaattcta caagggcaag aagtacaagc ccctggacct gcggcctaag aagacacgtg 360
ccatgcgccg ccggctcaac aagcacgagg agaacctgaa gaccaagaag cagcagcgga 420
aggagcggct gtacccgctg cggaagtacg cggtcaaggc ctgaggggcg cattgtcaat 480
aaagcacagc tggctgagaa aaaaaaaaaa aaaaggggg gcccttttaag agggatccct 540
tcgaaggggc ccaaagctta mgcgtkgcat tscgaacgtc aataggttct cttccctnat 600
tag                                                                  603
```

```
<210> 749
<211> 2045
<212> DNA
<213> Homo sapiens
```

```
<400> 749
ggcacgagga ggacgtgggg cttccgtgaa tgcgcagtgg gtgcgtcggc cacgaccttt 60
tggccaggtt agggaggggg cgacgctgag atgggggcgg cggcggcgga agcggatcgc 120
actctctttg tgggcaacct tgaaacgaaa gtgaccgagg agctcctttt cgagcttttc 180
caccaggctg ggccagtaat aaaggtgaaa attccaaaag ataaggatgg taaaccaaag 240
cagtttgcgt ttgtgaattt caaacatgaa gtgtctgttc cttatgcaat gaatctactt 300
aatggaatca aactttatgg aaggcctatc aaaattcaat ttagatcagg aagtagtcat 360
gccccacaag atgtcagttt gtcatatccc caacatcatg ttggaaattc aagccctacc 420
tccacatctc ctagcgcagg tacgaaagga ctatggataa catgacttca tcagcacaga 480
taattcagag atctttctct tctccagaaa attttcagag acaagcagtg atgaacagtg 540
ctttgagaca aatgtcatat ggtggaaaat ttggttcttc acctctggat caatcaggat 600
tttcaccatc agttcaatca cacagtcata gtttcaatca gtcttcaagc tcccagtggc 660
gccaaggtac accatcatca cagcgtaaag tcagaatgaa ttcttatccc tacctagcag 720
atagacatta tagccgggaa cagcgttaca ctgatcatgg gtctgaccat cattacagag 780
gaaagagaga tgatttcttc tatgaagaca ggaatcatga tgactggagc catgactatg 840
ataacagaag agacagtagt agagatggaa aatggcgctc atctcgacac taacacatgt 900
taaaaggaca ttgttttttat agggtcattt taggcccttt gactaagttg atatggaaat 960
attttgttga aaaactgtac agagcagctt tacaagttgt cacatttctt tataaatttt 1020
tttaaagcta cagtttaata caaaatgaat tgcggtttta ttacattaat aacctttcac 1080
ctcagggttt tatgaagagg aaagggtttt atgcmaaaga aagtgctaca attcctaatc 1140
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actgaaaata taaaggaag ggkgtgtgtt aaaaaraaaa aaaaaaaaa aaaaaaaaa 2040
aaaaa                                                                2045
```

```
<210> 750
```

```
<211> 1144
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1117)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1137)
<223> n equals a,t,g, or c

<400> 750
ctcaagtctt ccactgcaga tacattggag gcttcaccca cgttttcttt ccctttagtt 60
tgtttgctgt ctggatggcc aatgagcctg tctccttttc tgtggccaat ctgaaggcct 120
tcgttggaag tgttgtttac agtaatcctt accaagataa catactgtcc tccagaatac 180
caagtattag gtgacactag ctcaagctgt tgtcttcaga gcagttacca agaagctcgg 240
tgcacaggtt ttctctggtt cttacaggaa ccacctactc tttcagtttt ctggcccagg 300
agtggggtaa atcctttagt tagtgcattt gaacttgata cctgtgcatt cagttctgtg 360
aatactgccc tttttggcgg ggtttcctca tctccccagc ctgaactgct caactctaaa 420
cccaaattag tgtcagccga aagkaggttt caagatagtc ctgtcagtat ttgtggtgac 480
cttcagatta gacagtcttc atttccagcc agtggagtcc tggctccaga gccatctctg 540
agactcgtac tactggatgt tttaatatca gatcattacc caccatatgc ctcccacagg 600
ccaagggaaa acagacacca gaacttgggt tgagggcact accagactga catggccagt 660
acagaggaga actagggaag gaatgatgtt ttgcacctta ttgaaaagaa aatttttaagt 720
gcatacataa tagttaagag cttttattgt gacaggagaa cttttttcca tatgcgtgca 780
tactctctgt aattccagtg taaaatattg tacttgcact agctttttta aacaaatatt 840
aaaaaatgga agaattcata ttctattttc taatcgtggt gtgtctattt gtaggataca 900
ctcgagtctg tttattgaat tttatggtcc ctttctttga tggtgcttgc aggttttcta 960
ggtagaaatt atttcattat tataataaaa caatgtttga ttcaaaattt gaacaaaatt 1020
gttttaaata aattgtctgt ataccagtac aagtttattg tttcagtata ctcgtactaa 1080
taaaataaca gtgccaattg caaaaaaaaa aaaaaanaaa ngccccncgn gggggnccg 1140
gaac                                                             1144
```

```
<210> 751
<211> 1598
<212> DNA
<213> Homo sapiens

<400> 751
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cttctgtcgg ccctgctctc tgctgccttc ctactcgtga ggaaactgcc gccgctctgc 180
cacggtctgc ccacccaacg cgaagacggt aacccgtgtg actttgactg gagagaagtg 240
gagatcctga tgtttctcag tgccattgtg atgatgaaga accgcagatc catgttcctg 300
atgacgtgca aaccccccct atatatgggc cctgagtata tcaagtactt caatgataaa 360
accattgatg aggaactaga acgggacaag agggtcactt ggattgtgga gttctttgcc 420
aattggtcta atgactgcca atcatttgcc cctatctatg ctgacctctc ccttaaatac 480
aactgtacag ggctaaattt tgggaaggtg gatgttggac gctatactga tgttagtacg 540
cggtacaaag tgagcacatc acccctcacc aagcaactcc ctaccctgat cctgttccaa 600
ggtggcaagg aggcaatgcg gcggccacag attgacaaga aaggacgggc tgtctcatgg 660
accttctctg aggagaatgt gatccgagaa tttaacttaa atgagctata ccagcgggcc 720
aagaaactat caaaggctgg agacaatatc cctgaggagc agcctgtggc ttcaaccccc 780
accacagtgt cagatgggga aaacaagaag gataaataag atcctcactt ggcagtgct 840
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gggtyagtgt gttaactgct tatcagctat tcagacatct ccatggtttc tccatgaaac 1140
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ccctaaggta agatgctggg gtatagaacg ctaagaattt tcccccaagg actcttgctt 1260
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accccctatt ttgtggggat tgagaagggg tgaatagagg cttgagactt tcctttgtgt 1440
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cccagttgat ggctttccgt aataaaaaga ttgggatttc cttttgaaaa aaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaag                         1598

<210> 752
<211> 1485
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

```
<222> (1429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1436)
<223> n equals a,t,g, or c

<400> 752
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gggaggggga acctagagtt ctttgtagtg cctccctcag actctaacac actcagcctg 120
gcccctcct cctattgcaa cccctcccc cgctcctccc ggccaggcca gctcagtctt 180
cccagcccc attccacgtg gaccagccag ggcgggggta gggaaagagg acaggaagag 240
cangagccag ttctgggagg cggggggaag gaggttggtg gcgactccct cgctcgccct 300
cactgccggc ggtcccaact ccaggcacca tgttccccgc gggcccccccc agccacagcc 360
tcctccggct cccctgctg cagttgctgc tactggtggt gcaggccgtg gggagggggc 420
tgggccgcgc cagcccggcc ggggggccccc tggaagatgt ggtcatcgag aggtaccaca 480
tccccagggc ctgtccccgg gaagtgcaga tgggggattt tgtgcgctac cactacaacg 540
gcacttttga agatggcaag aagtttgatt caagctatga tcgcaacacc ttggtggcca 600
tcgtggtggg tgtggggcgc ctcatcactg gcatggaccg aggcctcatg ggcatgtgtg 660
tcaacgagcg gcgacgcctc attgtgcctc cccacctggg ctatgggagc atcggcctgg 720
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acaaggaaga caccgtgcag gtgagcacat tgctgcgccc gccccactgc ccccgcatgg 840
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ggaaattccg cagaagaggg aaaaaccagg cctccacata cagttgctca ggttgtatac 1140
tgcacgaggg catccaacca aggactcaag gtgggatgaa atctacccct ggtgctacta 1200
agaaggggtg ctttggccgg gcgtggtggc tcacgcttgt aatcccagca ctttgggaag 1260
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aaaaatacaa aaaattagc ccgggcgtgg tggggcgcc tgtagtccca gctactcgga 1380
anaggcttar gcaggaaaat gacgtgaacc cgggaagcgg agcttgcant gagccnaaat 1440
cggccacttg acttcaacct gggtgacaaa cgagactttt cttaa                 1485

<210> 753
<211> 1756
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1740)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1756)
<223> n equals a,t,g, or c

<400> 753
```

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ttccagccga kcactggagc tgacttccgc aatcccgatg gaataaatct agcacccctg 60
atggtgtgcc cacactttgc tgccgaaacg aagccagaca acagatttcc atcagcagga 120
tgtgggggct caaggttctg ctgctacctg tggtgagctt tgctctgtac cctgaggaga 180
tactggacac ccactgggag ctatggaaga agacccacag gaagcaatat aacaacaagg 240
tggatgaaat ctctcggcgt ttaatttggg aaaaaaacct gaagtatatt tccatccata 300
accttgaggc ttctcttggt gtccatacat atgaactggc tatgaaccac ctgggggaca 360
tgaccagtga agaggtggtt cagaagatga ctggactcaa agtacccctg tctcattccc 420
gcagtaatga caccctttat atcccagaat gggaaggtag agccccagac tctgtcgact 480
atcgaaagaa aggatatgtt actcctgtca aaaatcaggg tcagtgtggt tcctgttggg 540
cttttagctc tgtgggtgcc ctggagggcc aactcaagaa gaaaactggc aaactcttaa 600
atctgagtcc ccagaaccta gtggattgtg tgtctgagaa tgatggctgt ggaggggggct 660
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acccatatgt gggacaggaa gagagttgta tgtacaaccc aacaggcaag gcagctaaat 780
gcagagggta cagagagatc cccgagggga atgagaaagc cctgaagagg gcagtggccc 840
gagtgggacc tgtctctgtg gccattgatg caagcctgac ctccttccag ttttacagca 900
aaggtgtgta ttatgatgaa agctgcaata gcgataatct gaaccatgcg gttttggcag 960
tgggatatgg aatccagaag ggaaacaagc actggataat taaaaacagc tggggagaaa 1020
actggggaaa caaaggatat atcctcatgg ctcgaaataa gaacaacgcc tgtggcattg 1080
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ttgaagcaga tgtggtgata ctgagattgt ctgttcagtt tccccatttg tttgtgcttc 1260
aaatgatcct tcctactttg cttctctcca cccatgacct ttttcactgt ggccatcagg 1320
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tgtgttgtcc cagggctgat gctgtacagg tacaggctgg agattttcac ataggttaga 1440
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tcacttccta agttcccttc tatatcctca aggtagaaat gtctatgttt tctactccaa 1560
ttcataaatc tattcataag tctttggtac aagtttacat gataaaaga aatgtgattt 1620
gtcttccctt ctttgcactt ttgaaataaa gtatttatct cctgtctaca gtttaataaa 1680
tagcatctag tacacattca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaan 1740
aaaaaaaaaa aaaaan                                                  1756
```

<210> 754
<211> 1795
<212> DNA
<213> Homo sapiens

<400> 754

```
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agctgcagca gacggaccca acgctgttgt cagtagtggt ggcggttctt gcggtgctgc 180
tgacgctagt yttctggaag ttaatccgga gcagaaggag cagtcagaga gctgttcttc 240
ttgttggcct ttgtgattcc gggaaaacgt tgctctttgt caggttgtta acaggccttt 300
atagagacac tcagacgtcc attactgaca gctgtgctgt atacagagtc aacaataaca 360
ggggcaatag tctgaccttg attgaccttc ccggccatga gagtttgagg cttcagttct 420
tagagcggtt taagtcttca gccagggcta ttgtgtttgt tgtggatagt gcagcattcc 480
agcgagaggt gaaagatgtg gctgagtttc tgtatcaagt cctcattgac agtatgggtc 540
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cagcaaagtt aattcaacag cagctggaga agaactcaa caccttacga gttacccgtt 660
ctgctgcccc cagcacactg gacagttcca gcactgcccc tgctcagctg gggaagaaag 720
gcaaagagtt tgaattctca cagttgcccc tcaaagtgga gttcctggag tgcagtgcca 780
agggtggaag aggggacgtg ggctctgctg acatccagga cttggagaaa tggctggcta 840
```

```
aaattgcctg agaggcagct ctaaagcaca agacctggat gtgtgacaca cagttttgga 900
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caaatacaaa gtgaaaaaag ttctctgtag atttctgaag tgcatattca ttgatgccaa 1740
gaaaaaaaaa aagttgcctt tttgaaaaaa aaaaaaaaa aaaaaaaaa aaaaa      1795
```

```
<210> 755
<211> 1280
<212> DNA
<213> Homo sapiens
```

```
<400> 755
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tttttgattc tggggacatt ttttccacgg gcactggatc tcagtccgtg gagagaacaa 120
aacccaaggc aaagatagca gagaatcctg ccaacccacc agtgggtggt aaagcaaaga 180
gccccatgtt tcctgctcta ggcgaggcca gcagtgatga tgatctcttt cagtctgcta 240
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ttacagatca gaaagtcaag aagaatgaga caaaatccar tagtcagcag gatgtcatat 360
taacaacaca agatattttt gaggatgata tatttgctac ggaagcaatt aaaccctctc 420
agaaaaccag agagaggag aaaacattgg aatctaattt atttgatgat aacattgata 480
tctttgctga cttaactgta aaaccaaaag aaaagtccaa aaagaaagtg gaagccaagt 540
ctatatttga tgatgatatg gatgacatct tctcctctgg tatccaggct aagacaacca 600
aaccaaaaag ccgatctgca caggccgcac ctgaaccaag atttgaacac aaggtgtcca 660
acatctttga tgatcccctg aatgcctttg gaggccagta gagcacacag ggtatccaca 720
kgttaccctg cagctacatt gttgagttag tgatgatrtt gtatatgcts atggtcttaa 780
ctggattaca aaaagcaaat actagaacag ctagctcatc kttyacccaa tgtacttrgt 840
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tggttggttt gtttgtttt taaaccacag tttgatttag ttagccttgc tggggccata 960
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cagagatagc aaatgccacc tgaccagaag tctttgttat atggatggga accctaactt 1080
agggcytggg caggggaaag agaagaagr tgagagatta tacttcatga gtcttagcaa 1140
tatgggagca ggttttcact gaattctgag ggtgcctctg catgtcctcc aaggcaaagt 1200
ttggcaaact gtggccccccc cactgtcata ttttgttaat aaaattttat ggaacacaa 1260
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```

```
<210> 756
<211> 3665
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (3654)
<223> n equals a,t,g, or c

<400> 756
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aaggcccgca acccgggaaa cgtcaaaaca aacagaagga cttgggattc cggagcagtc 120
gcccctatcg ctgctcctgc agttgcggac gccaccgacc ccgccgccgg aggactgggc 180
actgaaaggc ctctaggcct aggcgcggcc cgcggagcca gacgtgttgc tgccgtgagt 240
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ccagaaggta ctatttagac tgtatagact gattagatt acatacttta gaggattaag 2640
gaaaccatag agtttgggcc ttggaactgt tactgccttg tcctagagtt gtcctgatca 2700
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tggagatttt tatttttgca taagtagtcc atcctataca gatagctgat taactgtatt 3540
ccccttttccc ctatggctgc tggtgtaaat aaactgcatc tccccattgg taaacagtaa 3600
taaaatttta aaaatgaaa aaaaaaaaaa aaaagaaaa aaaaagaaa aaanaaaaaa 3660
agaaa                                                                 3665
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<210> 757
<211> 1221
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (1071)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1081)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1201)
<223> n equals a,t,g, or c


<400> 757
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agttctcgcc accaaagtcc ttggcactgt caaatggttc aacgtcagaa atggatatgg 180
atttataaat cgaaatgaca ccaaagaaga tgtatttgta catcagactg ccatcaagaa 240
gaataaccca cggaaatatc tgcgcagtgt aggagatgga gaaactgtag agtttgatgt 300
ggttgaagga gagaagggtg cagaagctgc caatgtgact ggcccggatg gagttcctgt 360
ggaagggagt cgttacgctg cagatcggcg ccgttacaga cgtggctact atggaaggcg 420
ccgtggccct ccccggaatg ctggtgagat tggagagatg aaggatggag tcccagaggg 480
agcacaactt cagggaccgg ttcatcgaaa tccaacttac cgcccaaggt accgtagcag 540
gggacctcct cgcccacgac ctgccccagc agttggagag ctgaagata aagaaaatca 600
gcaagccacc agtggtccaa accagccgtc tgttcgccgt ggataccggc gtccctacaa 660
ttaccggcgt cgcccgcgtc ctcctaacgc tccttcacaa gatggcaaag aggccaaggc 720
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caggytcytm aggcacctty accatcggca ggtgacctaa agaattaatg accattcaga 840
aataaagcaa aaagcaggcc acaaccttaa ccaacaccaa agaaacatcc aagcaataaa 900
gtggaagact aaccaagatt tggacattgg aatgtttact gttattcttt aagaaacagc 960
tacaaaaaga aaatgtcaac aaattttttcc agcaagctga gaacctggga attctgcacg 1020
gaagaccaga gagtagcctc ttccgttttc agcaaccgct aggttccat nttttttttcc 1080
nggtttttac tgttttggta atatatatat tgaaaccagg aatattaata cccatgggga 1140
gaaccccacc caagaattga atatatggta atgctttttt ccgtttgtca ttggtgctgg 1200
nctgcgattc tgaacccggg a                                           1221
```

<210> 758
<211> 631
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (630)
<223> n equals a,t,g, or c

<400> 758
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atgcaagccc gaggcttcgg ctcggatcag tccgagaatg tcgaccgggg cgcgggctcc 180
atccgggaag ccggtggggc cttcggaaag agagagcagg ctgaagagga acgatatttc 240
cgacattaca ggttatgctt tgagatctct ttggggtgaa ggattgaaat taaaccctga 300
gccaccgtgt ccttgtagag cacagagtag agaacaactg gcagctttga aaaaacacca 360
tgaagaagaa atcgttcatc ataagaagga gattgagcgt ctgcagaaag aaattgagcg 420
ccataagcag aagatcaaaa tgctaaaaca tgatgattaa gtgcacaccg tgtgccatag 480
aatggcacat gtcattgccc acttctgtgt agacatggtt ctggtttaac taatatttgt 540
ctgtgtgcta ctaacagatt ataataaatt gtcatcagtg aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaan c                                 631
```

<210> 759
<211> 2496
<212> DNA
<213> Homo sapiens

<400> 759
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ggagttgcca ctatcctaat tctaacacca tagcttcgtt ttgtctgaga ctacgttcct 120
tttaatataa ctgaactgtt taattcatct gagaattcta cctatgatga aaaatgttgt 180
ggtggtagca tttgggttaa ttctrattat agagtctctt ggagagcaat gtccataaac 240
taatcccaaa caacattgtc tttttratgt tgtagtgaac agcagagaat ttcaaaggac 300
cttgctaata tctgtaagac ggcagctaca gcaggcatca ttggctgggt gtatggggga 360
ataccagctt ttattcatgc taaacaacaa tacattgagc agagccaggc agaaatttat 420
cataaccggt ttgatgctgt gcaatctgca catcgtgctg ccacacgagg cttcattcgt 480
tatggctggc gctggggttg gagaactgca gtgtttgtga ctatattcaa cacagtgaac 540
actagtctga atgtataccg aaataaagat gccttaagcc attttgtaat tgcaggagct 600
gtcacgggaa gtctttttag gataaacgta ggcctgcgtg gcctggtggc tggtggcata 660
attggagcct tgctgggcac tcctgtagga ggcctgctga tggcatttca gaagtactct 720
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ggtgagactg ttcaggaaag aaaacagaag gatcgaaagg cactccatga gctaaaactg 780
gaagagtgga aaggcagact acaagttact gagcacctcc ctgagaaaat tgaaagtagt 840
ttacaggaag atgaacctga gaatgatgct aagaaaattg aagcactgct aaaccttcct 900
agaaacccut cagtaataga taaacaagac aaggactgaa agtgctctga acttgaaact 960
cactggagag ctgaagggag ctgccatgtc cgatgaatgc caacagacag gccactcttt 1020
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atttaaatac atacttatgt ttgtattaat ctatcaatat atgcatacat gaatatatcc 1200
acccacctag attttaagca gtaaataaaa catttcgcaa aagattaaag ttgaatttta 1260
cagttcgtat attcatgtgg tcctttgaaa gggtattcta gaaatcactg gaaagaggag 1320
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gccctatgga aagttactac cttagacatt tgaagatagc ttactgctta gtacatacac 2100
tgtaaacaac gatctcattt taaatgagaa ctttctcata aatattttac aaatgaggtc 2160
aaactagcat aaagccattt aaagagatta acagtccaat atgaaccagt taagtctttg 2220
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gcagcaatag agaacacaat gaaaaaaatg gaatactggg taaacaccaa taatatttcc 2400
attagtctcc taaagatgta atgcatagga agtatggcat gaacatcttt aggagactaa 2460
tgatgttcat gccatacttc caatgtaatg catagc                            2496
```

<210> 760
<211> 2048
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1957)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1963)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2006)
<223> n equals a,t,g, or c

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<400> 760
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gcctgaggac agccccgagg ctgaggcctc caccctggat gtgttcacgg agaggctgcc 180
gcccagcggg aggatcacca agacagagtc ccttgtcatc ccctccacca ggtccgaggg 240
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ccagaatgag cgggccaaca gcctggacaa cgagcgctgc ccggacgccc ggagccagct 360
acagatcccc aggaagactg tgtatgacca gctcaaccac atcctcatct ccgatgacca 420
gcttcccgaa aacatcatcc ttgtcaacac ctcggactgg caggggcagt tcctctccga 480
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gaccccgtg aagatcgccg tggcgggagc gcagcattac ctcagtgcca tcctgcggct 660
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cagctgcatt tctgttaaca tttcagttta ctacagagac agacgcttaa aacacaaga 1740
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tgctttctta aggagccccg gggaangctg aacttaatgg cacaggccc gagggccat 2040
tggggccc                                                       2048

<210> 761
<211> 1757
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1728)
<223> n equals a,t,g, or c

<400> 761
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gtattattgt tatatatata gttaatatgt tgtacatcac aataatatat aattcagtct 120
ctagtttccc tagagtcatt tttgaaacca ctgattgcaa acctccctga caattttaa 180
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aagtagtaag ccacattaca tttatctttg taaaaagatt tatggtaact ggtttcttac 240
ttgactttta taaatagtat tttacatctt attttttgcct ttatttcata agtaatttaa 300
aaatcactgg attgctttat tatattcagg gcaatatgga ttattttttat accaaggatt 360
tgcatcgtga attacattaa gttatttggc aatttataat ttattactac tttaaatcaa 420
atgtagcatt atcacactgt atttaaattg tcatttttta aaggaatatt ttcttcttaa 480
gatatataga ggattttgga gaagagagac aggaggggta aaaccagctt aaggttcagc 540
gagcagaaag ggacctgaga ggatgctcac tgtaagactg ttggacagtg gtgtgtattg 600
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gcagataaaa caagtttaca tgtgcagagt tagaaaatga catgttcaat tctgtaagtg 1260
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aaaggaaata aggaaattgt aagctttatt tggattttta aatacatttt taaaatttca 1620
gatgtaattt aacatcacat ttgtttttca ggtattgagt ttagatgcct acttttatg 1680
aggtaccatc agctgggaca cagtgtcccc gtggcctggt gttttggnag gcacctttg 1740
gggaaggctg gaggcag                                                 1757
```

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<210> 762
<211> 4448
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (920)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<22?> (4446)
```

<223> n equals a,t,g, or c

<400> 762

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atngcattaa  tatttaatag  tgcttgcttt  tcctctgggc  acacccattt  tgatcattaa   60
ccagagtacc  tctactctta  gcaaactcta  gtttatgaca  aagtatttaa  aatatttaaa  120
acaagcttat  gcagttctta  aggacgaagg  taaatgagat  gtaacttaaa  aatagtattg  180
ggaaaatgtt  gatagttaac  attagtggat  ttagactagc  cawatgacat  agtaggctct  240
gaaacatctt  ktcaagtata  tgtattttgt  gcatgaattt  ttgctggaaa  kctgtctttc  300
tctgawawac  acaackttct  tagaatgaaa  agaacaatta  taawataatt  atcctatatg  360
tgttttttcat  tctttttagt  gtcatggctt  caaaaatgaa  acatttattt  taattgccgt  420
aaaggaactg  tattttttgtt  ttgttttta  acacagcact  ttaaatcyag  tttgtgtttt  480
gtcaacttga  actggaatct  cttttgttac  tttggaggtg  ataaatagtt  ttcaaatctg  540
ctgatttgta  tactgtggca  caagtatctt  tgaactttga  tagtgaaagg  agaccttcaa  600
caattttttag  tctaggcgag  aggaatatta  ggaatgtgac  ttctaaattt  tacaatagag  660
cagttatttt  aaggtcatgg  ttaacatttc  ttaaggttcm  actaaaattc  agttaaaatt  720
tcagagctac  gaggaactta  aatcttagct  aaaaattacc  tgttgtagat  agtattaatt  780
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aaacaaaaaa  aattatttct  agattaatag  gctagtagtt  atttctgcag  aaacaacgta  900
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taggaaacat  cttaagcttg  tgtgttgcct  gtggtggttt  tttgtttggg  ggtgtttttt  1020
ggttttggtt  tgatttttctg  tattttgtta  tctggggatt  ttttgtttgt  ttgtttttggt  1080
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<210> 763
<211> 2890
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<400> 763
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cggcccagct ctcccgcgcc gactctgcca catcctccgg tgacgtcagc cggggccgcc 180
atattggaaa ggcgccgccg ccgcctccgc cttggagctc ggggtgtttc ggggactgcg 240
gccacaggca ggaaggcgct cctctcctgc cccgccgacg cccggccagc ccgcttcgcc 300
ctgacctgtt tcctcatgac tgcccccggc cctgctgccg acggacgtcg ccccggcgtc 360
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gagcaggacg acgacgacaa gggcgactcc aaggaaacgc ggctgaccct gatggaggaa 660
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aaaagtcgac                                                       2890
```

<210> 764
<211> 1703
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (860)

<223> n equals a,t,g, or c

<400> 764

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agccctctcc gttgggtgac tcttgtgtgc cctttagaca ggctggcctg ccggttccac 180
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ggtaacatgg gccttcagga tgacccttg gaactgtgcc gagttcctta aatctcagct 300
gggatcctgg acctgggagg cccctgtgag ggccagctct ggaaaaacct gggagttgat 360
gccggagntg tggaagaact ctgctcgagg gcaggtgcc ctggaacact ggtagttctg 420
gggctgggag ggagaggggc tccggctttc tctgaaatga acactgctct tcagcagttc 480
aagtacttgt tctcaaaaca ttttctaatt gattggtagg ttttcataag cattgtttct 540
ttaaggcatg gaaaggaag aatgctcaag caagtcatgt ttgtttttcag tgggatgggc 600
ccgcgttctc actgctgggg gcttccccctt catgtggcac ctttgtgcag gccaccaggc 660
agactcttcc caccttctcc cactgaagca ccaagrggct tgaaccgtaa tttggctaat 720
cagaggcatt ttttttgtcc tagtatcttt cacacttgtc caaccgtctt attttttttaa 780
aagttctgtt gcttgtatta acacgaaact agagagaaat agtttc.gaa gccagtttat 840
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gaaaaaaaaa attccacaag ctttaaagg tgcatttaag aatccatgtg actttagaat 1080
ggaactgccg gccctggcaa ctgtcacgtg tgctagaagg ttcgatgcct ctggaatgca 1140
tgtgatactc atctccattt tgtttccttg attgcatttt tgttctttta gcagatctgt 1200
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ggcacggtga acacgcggac tatactctgt gaccgtgcga cgcccgaggt aagggcccct 1620
ctccgcggag cccccgcacg ggtgggcaaa agcccggtct tctcgcgtag aggtttccac 1680
aggcgcctgt ggcccaaggc gat                                       1703
```

<210> 765
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<400> 765

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kagctgtggg tttgaraggt tatttgtcca tgggatgctc gtgttaaaac aaaaatcttc 120
attgcaaagc ttaagtaaaa acaagtctcg accganatcc ttcatgatga gagatttggg 180
gacacttctc tctcctgtgt gtagttgata gtttggtggt gaagagatgg ctgacagtgt 240
caaaaccttt ctccaggacc tt                                         262
```

<210> 766

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<211> 3072
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3072)
<223> n equals a,t,g, or c

<400> 766
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ttactcattg gaggaacagt accttggctt ggctcttgac gtggacagaa ytaaaaagga 120
csaagaagag gaagaagacc aagrcccacc atgccccagg ctcagcaggg agctgctgga 180
ggtagtagag cctgaagtct tgcaggactc actggataga tgttattcaa ctccttccag 240
ttgtcttgaa cagcctgact cctgccagcc ctatggaagt tccttttatg cattggagga 300
aaaacatgtt ggcttttctc ttgacgtggg agaaattgaa aagaagggga aggggaagaa 360
aagaagggga agaagatcaa agaaggaaag aagaagggga agaaagaag gggaagaaga 420
tcaaaaccca ccatgcccca ggctcagcag ggagctgctg gatgagaaag ggcctgaagt 480
cttgcaggac tcactggata gatgttattc aactccttca ggttgtcttg aactgactga 540
ctcatgccag ccctacagaa gtgcctttta yrtattggag caacagcgtg ttggcttggc 600
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ccccaggctc agcagggagc tgctggatga gaaagagcct gaagtcttgc aggactcact 720
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atcagcatta tcatgatatc aggactggtt acttggttaa ggaggggtct aggagatctg 2640
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aatttttgtc caaagttatt ttaatctata caattaaaag cttttgccta tcactctgga 2940
ctgttggatt gttttttaca ttcagtgtta taatmtttgt tatgctgatt ggttttggtg 3000
ggtactgatg tgaattaata aaaacatttc atttccaaaa aaaaaaaaaa aaaaaaaaaa 3060
aagggggggcc cn                                                   3072
```

<210> 767
<211> 1321
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1321)
<223> n equals a,t,g, or c

<400> 767
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agtgctcgct cctgctcggg gcgctgcggc cccgggcgtc gccatgacca gtgagctgga 120
catcttcgtg gggaacacga cccttatcga cgaggacgtg tatcgcctct ggctcgatgg 180
ttactcggtg accgacgcgg tggccctgcg ggtgcgctcg ggaatcctgg agcagactgg 240
cgccacggca gcggtgctgc agagcgacac catggaccat taccgcacct tccacatgct 300
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aacaggcatc accctcaaga gctgccggag acagtttgac aactttaaac gggtcttcaa 540
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aggtgcctcc caacgctccg cccacgctga caataaagtt gctctgagtt tggaaaaaaa 1260
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n                                                                1321
```

<210> 768
<211> 1532
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (1523)
<223> n equals a,t,g, or c

<400> 768
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ggagggactg attgcagaac cttcttgaca agccacataa atctaaagaa aacgttgtgt 180
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gtggtccaga ttggtttttag gtngtcttgg ac                                  1532

<210> 769
<211> 2569
<212> DNA
<213> Homo sapiens

<400> 769
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ccggaggaca gcggcaaata cacctgccgc gtgtcgaacc gcgcgggcgc catcaacgcc 180
acctacaacg tggatgtgat ccagcggacc cgttccaagc ccgtgctcac aggcacgcac 240
cccgtgaaca cgacggtgga cttcgggggg accacgtcct tccagtgcaa ggtgcgcacg 300
acgtgaagcc ggtgatccag tggctgaagc gcgtggagta cggcgccgag ggccgccaca 360
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```
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atctctgtaa ttttatgtag agtttgagct gaagccccgt atatttaatt tattttgtta 2520
aacatgaaag tgcatccttt ccctccaaaa aaaaaaaaa aaaaaaaa           2569
```

```
<210> 770
<211> 1637
<212> DNA
<213> Homo sapiens

<400> 770
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ataaacccaa actgttcaga ggactgcaaa tcaagtatgt ccgtggttca gaccctgtat 480
taaagctttt ggacgacaat gggaacattg ctgaagaact gagcattctc aaatggaaca 540
cagacagtgt agaagaattc ctgagtgaaa agttggaacg catataaatc ttgcttaaat 600
tttgtcctat ccttttgtta ccttatcaaa tgaaatatta cagcacctag aaaataattt 660
agttttgctt gcttccattg atcagtcttt tacttgaggc attaaatatc taattaaatc 720
```

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gtgaaatggc agtatagtcc atgatatcta aggagttggc aagcttaaca aaacccattt 780
tttataaatg tccatcctcc tgcatttgtt gataccacta acaaaatgct ttgtaacaga 840
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tctgatttta tttttcaaag tttttttcatt tatgaacaca ttttcattgg tatattattt 1560
aaggaatatc tcttgatata gaatttttat attaaaaatg attttttcttt gcttaaaaaa 1620
aaaaaaaaaa aactcga                                                 1637
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<210> 771
<211> 2485
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2479)
<223> n equals a,t,g, or c

<400> 771
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tgttcaccct caagattgtc ttctggcttt tcgtatttcc aaataaattg taaaattgat 240
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ttgatgattt gagaattgac atccttacag tattgagtat tctaacctgt gaatatggta 360
gaaaccattg tgtattcagt tatttgattt ctttcagtta tgtttttataa ttttctgtgt 420
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taaatggtat tgtttttaaat ttttatttttc taattatagc aacttgtatg tagagtcatg 540
tgccacttta tgatggggat atgagaaatg cattgttagg cagtttcatc atgcaaacat 600
catagagtgt acttacgcaa atcatgcaaa catcatagag tgtacttaca caaacctaaa 660
tggtacatgc tgctacacac cttagctgta tgatatagcc agttgctcct agactgcaaa 720
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tcctttttttc attactcata tattttttttc ttgccttact acactgccta gtaaaatata 1320
taaaatatgt gcttcacgga aaggggactt tgattaagga catgcctcct tcagagcttt 1380
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cactgaggat gaagagggaa atgccaaact gcagcagcgc cagctcataa cagtcacaat 1560
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gccttcatct tgagtcggaa tatatttaaa taaattgtgt tatctcttgc caaaaaaaaa 2460
aaaaaaaaaa aaaaaaaang ggggg                                      2485
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<210> 772
<211> 432
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<400> 772
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accgtgggcc ctcacagcat tgcctcacct cccgaggata ggacagtcaa agacagcacc 180
ccaagttctc tggactcaga tcctctgatg gccatgctgc tgaaacttca agaagctgcc 240
aactacattg agtctccaga tcgagaaacc atcctggacc ccaaccttca ggcaacactt 300
taagggttcg gcaatcactg tcacccccgg acagcagaac gcttggcatc agcttatctt 360
tagctcctcc ttcttccnct tctccttctt ttcaagagca cttggctctt ccagccccaa 420
ggaggaagaa ca                                                   432
```

<210> 773
<211> 1048
<212> DNA
<213> Homo sapiens

<400> 773
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gaaaaaatta aaaagaaaaa ttgttttgaa aatgtacaga tcaagtccaa tattttgatt 60
atccacctgc atgttttatt aaatattttg ataatgtgga tgtttacact ttgcatgata 120
ttagcagagt accactagta atgcacaaac atgtacaata tggtcattca taaccgattt 180
ttatagaata ctttttacat gtgcaactcc atccgttatg taaggattac atgaatattg 240
cacattccct tctggtttca caaacccatt tatacatatt tcttagtgag gctcattgta 300
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```
catgtattga agctagaatc gagtcaagaa aaataaagcc ccattctcca actgcaaaat 360
gtgctttccc ataatgaaca ctagtcacca gcacagaata atctccaaca ttttctaaat 420
tctaattgcc aactgtttct atttatattt gatttatatt tcatttggag tctgttacat 480
ggcagcttag gcagactaga tcttgttttt tcccaatgca gcataatgag tatgatctat 540
ttcttttcaa ataatctttg agatcccagg aaaaaaaaaa tgctctgctc cattgagcta 600
taatgtaaat gtgtttgttt aaaaaacagg tgaggcaagt gagtgattta ttgttcctga 660
ggaagtatat ctgatttttt ttctcatact ccaaaagcta gtccctactc tttaataaaa 720
ataatgggta acttttttgtt tttcactagc gaacttccat gacatttcct ttctatgtag 780
tgtgattaat gcaatacata ttatagttat ctatacacag tgtaagattt aacaaactga 840
aatgatccac ctcatatgtg agtccgtcca aaagatgtta ctgctctggg tgggccagtg 900
ttctatatcg gttatactaa ctttcatta aagtatttat tctaaaatgc ctctgagaaa 960
cagtaaaaaa taaaaacaac aagttgtcta aaatgcaaca gcttttatag taaatgtaca 1020
tttataaata aaatactcaa atcaaaaa 1048
```

<210> 774
<211> 1019
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (971)
<223> n equals a,t,g, or c

<400> 774
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tcagagaatt cctactgccg ggatctacgg ggccagttac gtgccatttg ctgctccagc 120
tacagccacg atcgscacac tacagaagaa cgcggcagcc gcggccgccg tgtatggagg 180
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gaaggaacgc ttgactattt atgaagaagg aacatgttgg attcacacat gcaacctgaa 360
agtgaagaat gttagcagat ttatttctga attattttat atacatgaag ttttcactag 420
ttttttaaga ctatttttcaa cttagcatgc ctacgttcat acatttccaa aagacttgca 480
atggttcgtg ccttcattcc atctttttaaa aatttgtatg ctgtactaca tttgtataga 540
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ctgcactcca gagatttcta ttttgtagta ccttcaataa tatatcaact atatattaaa 660
aaagcacact tgaggagcta gggaactatt ttgaaaaata tatacaatat ttaaagatac 720
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cawttttaaa atgrgtaaaa ccyctgtatt tcygctggca ttaagggtkg atggtgttac 840
catgtatcat catggcggta ctatttttta aaagaaatta aacactggat ctctccttaa 900
gccaacattg aaaagacttg ccgcacttct gagtccaaac actggaaagc tctcctttgc 960
caccgttagg ngggctcat tctccatgtg ccttagcctt aaacatgccc ccactccgc 1019
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<210> 775
<211> 2248
<212> DNA
<213> Homo sapiens

<400> 775
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gggccgcccg cgtaggaagg cacggccggc ggcggcggag cgcagcgatg gccgggcgag 60
ggggcagcgc gctgctggct ctgtgcgggg cactggctgc ctgcgggtgg ctcctgggcg 120
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```
ccgaakccca kgakcccggg gcgcccgcgg cgggcatgag gcggcgccgg cggctgcagc 180
aagaggacgg catctccttc gagtaccacc gctaccccga gctgcgcgag gcgctcgtgt 240
ccgtgtggct gcagtgcacc gccatcagca ggatttacac ggtggggcgc agcttcgagg 300
gccgggagct cctggtcatc gagctgtccg acaaccctgg cgtccatgag cctggtgagc 360
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ttttcttggc ccagtaccta tgcaacgaat accagaaggg gaacgagaca attgtcaacc 480
tgatccacag tacccgcatt cacatcatgc cttccctgaa cccagatggc tttgagaagg 540
cagcgtctca gcctggtgaa ctcaaggact ggtttgtggg tcgaagcaat gcccagggaa 600
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acactactta aaagtttagg gttttctctt ggttgtagag tggcccagaa ttgcattctg 2160
aatgaataaa ggttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
aaaaaaaaaa aaaaaaaaaa aactcgag                                    2248
```

<210> 776
<211> 1605
<212> DNA
<213> Homo sapiens

<400> 776
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gtgggggcac tttcgtctta gcttttggac aagacgcagg cgcaacccac ggctgctgcg 120
gggatccttg tggcccttcc ggtcgrtgga accaatccgt gcacagagaa gcggggcgaa 180
ctgaggcgag tgaagtggac tctgagggct accgctaccg ccactgctgc ggcaggggcg 240
tggagggcag agggccgcgg aggccgcagt tgcaaacatg gctcagagca gagacggcgg 300
aaacccgttc gccgagccca gcgagcttga caaccccttt caggacccag ctgtgatcca 360
gcaccgaccc agccggcagt atgccacgct tgacgtctac aacccttttg agacccggga 420
gccaccacca gcctatgagc ctccagcccc tgccccattg cctccaccct cagctccctc 480
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cttgcagccc tcgagaaagc tcagccccac agaacctaag aactatggct catacagcac 540
tcaggcctca gctgcagcag ccacagctga gctgctgaag aaacaggagg agctcaaccg 600
gaaggcagag gagttggacc gaaggagcga gagctgcagc atgctgccct gggaggcaca 660
gctattcagc cctgcttttt ccaggacatc tccatggaga tcccccaaga atttcagaag 720
actgtatcca ccatgtacta cctctggatg tgcagcacgc tggctcttct cctgaacttc 780
ctcgcctgcc tggccagctt ctgtgtggaa accaacaatg gcgcaggctt tgggctttct 840
atcctctggg tcctcctttt cactccctgc tcctttgtct gctggtaccg ccccatgtat 900
aaggctttcc ggagtgacag ttcattcaat ttcttcgttt cttcttcat tttcttcgtc 960
caggatgtgc tctttgtcct ccaggccatt ggtatcccag gttggggatt cagtggctgg 1020
atctctgctc tggtggtgcc gaaggcaaca cagcagtatc cgtgctcatg ctgctggtcg 1080
ccctgctctt cactggcatt gctgtgctag gaattgtcat gctgaaacgg atccactcct 1140
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tctccaaccc tgcggtgcga accgcagctg ccaatgcagc cgctggggct gctgaaaatg 1260
ccttccgggc cccgtgaccc ctgactggga tgccctggcc ctgctacttg agggagctga 1320
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ccgtagtgct cccaatccta tggccatgac tgctgaacct gacaggcgtg tggggagttc 1440
actgtgacct agtcccccca tcaggccaca ctgctgccac ctctcacacg ccccaaccca 1500
gcttccctct gctgtgccac ggctgttgct tcggttattt aaataaaaag aaagtggaac 1560
tggaactgaa aaaaaaaaaa aaaaaaaaaa aaaagggsg gccgc             1605
```

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<210> 777
<211> 1808
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1806)
<223> n equals a,t,g, or c

<400> 777
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ccacccctct ggaggccatg aaaggaccca gggaagagat cgtctacctg ccctgcattt 180
accgaaacac aggcactgag gccccagatt atctggccac tgtggatgtt gaccccaagt 240
ctccccagta ttgccaggtc atccaccggc tgcccatgcc caacctgaag gacgagctgc 300
atcactcagg atggaacacc tgcagcagct gcttcggtga tagcaccaag tcgcgcacca 360
agctggtgct gcccagtctc atctcctctc gcatctatgt ggtggacgtg ggctctgagc 420
cccgggcccc aaagctgcac aaggtcattg agcccaagga catccatgcc aagtgcgaac 480
tggccttct ccacaccagc cactgcctgg ccagcgggga agtgatgatc agctccctgg 540
gagacgtcaa gggcaatggc aaaggggtt ttgtgctgct ggatggggag acgttcgagg 600
tgaagggac atgggagaga cctggggtg ctgcaccgtt gggctatgac ttctggtacc 660
agcctcgaca caatgtcatg atcagcactg agtgggcagc tcccaatgtc ttacgagatg 720
gcttcaaccc cgctgatgtg gaggctggac tgtacgggag ccacttatat gtatgggact 780
ggcagcgcca tgagattgtg cagaccctgt ctctaaaaga tgggcttatt cccttggaga 840
tccgcttcct gcacaaccca gacgctgccc aaggctttgt gggctgcgca ctcagctcca 900
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ccatccagcg cttctacaag aacgagggag gtacatggtc agtggagaag gtgatccagg 960
tgccccccaa gaaagtgaag ggctggctgc tgcccgaaat gccaggcctg atcaccgaca 1020
tcctgctctc cctggacgac cgcttcctct acttcagcaa ctggctgcat ggggacctga 1080
ggcagtatga catctctgac ccacagagac cccgcctcac agcacagctc ttcctcggag 1140
gcagcattgt taagggaggc cctgtgcaag tgctggagga cgaggaacta aagtcccagc 1200
cagagcccct agtggtcaag ggaaaacggg tggctggagg ccctcagatg atccagctca 1260
gcctggatgg gaagcgcctc tacatcacca cgtcgctgta cagtgcctgg gacaagcagt 1320
tttaccctga tctcatcagg gaaggctctg tgatgctgca ggttgatgta gacacagtaa 1380
aaggagggct gaagttgaac cccaacttcc tggtggactt cgggaaggag cccttggcc 1440
cagcccttgc ccatganstc cgctaccctg ggggcgattg tagctctgac atctggattt 1500
gaactccacc ctcatcaccc acactcccta ttttgggccc tcacttcctt ggggacctgg 1560
cttcattctg ctctctcttg gcacccgacc cttggcagca tgtaccacac agccaagctg 1620
agactgtggc aatgtgttga gtcatataca tttactgacc actgttgctt gttgctcact 1680
gtgctgcttt tccatgagct cttggaggca ccaagaaata aactcgtaac cctgtccttc 1740
aaaaaaaaaa aaaaaaaaaa aaaaagggg ggcgctctaa aagatcctcc aagggccaag 1800
cttacnct                                                        1808
```

<210> 778
<211> 1484
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1479)
<223> n equals a,t,g, or c

<400> 778
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gcagcgccag gtccggtgtt ggggtgtccg agttgccgcc ggagaggagt ggcctcgccc 120
gcttgagttt tgattcatca tggataatct gtcatcagaa gaaattcaac agagagctca 180
ccagattact gatgagtctc tggaaagtac gaggagaatc ctgggtttag ccattgagtc 240
tcaggatgca ggaatcaaga ccatcactat gctggatgaa caaaaggaac aactaaaccg 300
catagaagaa ggcttggacc aaataaataa ggacatgaga gagacagaga agactttaac 360
agaactcaac aaatgctgtg gcctttgtgt ctgcccatgt aatagaacaa agaactttga 420
gtctggcaag gcttataaga caacatgggg agatggtgga gaaaactcac cttgcaatgt 480
agtatctaaa cagccaggcc cggtgacaaa tggtcagctt cagcaaccaa caacrggagc 540
agccagtggt ggatacatta aacgcataac taatgatgcc agacaagatg aaatggaaga 600
gaacctgact caagtgggca gtatcctggg aaatctaaaa gacatggccc tgaacatagg 660
caatgagatt gatgctcaaa atccacaaat aaaacgaatc acagacaagg ctgacaccaa 720
cagagatcgt attgatattg ccaatgccag agcaaagaaa ctcattgaca gctaaagcta 780
ctgctgttct tctttatcat ttattcactt ccgtagctcc tccttgaaag ttattacctt 840
ttcagagttt aagttttcgg ttccacgstc ttctaattgg gagataatat ggaagaaggg 900
ccagagcagt tacagccctc cttctttttt gttttctgtt gagggcgac tgctgctctg 960
ccttccttct agtattttct ttctcaattc atacgcttag attggtttc atatgtcatg 1020
tttagtgttt tcatcctcct catatacttc agcaggttct tttgctttca agatttggaa 1080
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gcattgccaa agacagccat gaagaaggaa gctgtagagg tgtttttgt tgttgtttat 1140
ttttgctttt gtggttgagg gaaggacaag agataagagg ttgttacctc agtaaaaacc 1200
ttcaggccac aaagcaaaaa gttgcatagc cacaacgaag atctagttgg atatagtttt 1260
tgatttaagt tgcagttata gccaatttag gctaatgctt ggttttggag cttttataca 1320
caacgttttt gttaggcatc acagttttgc aacctctgct ccaaagrgaa aaatagratg 1380
agttttcttt cttttttttt ttttngggag tcagagtctc gctcycytgk ccmrggctgg 1440
gagtgccawa gcgcgatctg gggctccact gccaacctnc cgcc              1484
```

<210> 779
<211> 1343
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1313)
<223> n equals a,t,g, or c

<400> 779
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ttaaataaac agatgctctc acctgggaag aggagacagg gagggaacc aattgaagaa 60
agaggagaaa agtcttagag tgtggaaaag gcaaccaggt tggccgtaag gtgcctgctg 120
gaatgcgtgt gcctccacac gggtctgggc atccggactg ataaccagcc ggccagactg 180
agggatggaa ggcactgaga tgggggcccg tccaggcgga cacccgcaga aatggagctt 240
tctgtggtct cttgcactct ggctgcctct tgccctctct gtgtctctct ttcttggtct 300
ctccctctct cctcctcagc ctggtctttc tctttggtgc acacttagtt attgttgtga 360
gcaatggaag ttcaaaggaa ctccctctcc agctcttctg aatcttggga cacagcctaa 420
aaaggacaaa aagttagaag acagcatagc aactcagctc agggagctac cagagaaaaa 480
tagcaactga tgtgggtgct tttttttttt ttttaatttg aataaaaaga attagaagtg 540
atgtcctttt ataaaatgcc ttctccccct tcccgcctac agtctcttcc tctcccctta 600
gagggggaa agtgtataaa cctacagggt tgtgagtctg aaaagaggat cccccctcacc 660
cccaccctgg gcagagcagt gggggttggg gggtgggaga ggggacaca gatcctggca 720
cactgtggat atttcttgca gattgcagtc tcttgtggcc caaacaggtt aggtagacta 780
tcgcctctgg caggtgccac cttttggtac caacatgttc tgaggtgtta ggatttgggt 840
tgggtttttt ttgtttgttt ttttttcct tttggtcttt ttttttttct ccttttaaag 900
aaaagctaaa ggccgctgtg agtcctggtg gcaggctctc catggatgta gcatatcgaa 960
gataattttt atactgcatt tttatggatt attttgtaat gtgtgattcc gtctgctgag 1020
gaggtgggag gggctccagg gaaagccacc caccttcagt gaggttgctc cccagctgag 1080
cgcaccgggc atgggatgtg gaggctggcg acacaccctg tgcctctcca aggctgggcg 1140
cgtggggcgt ccagagtctc tctgggtctc agatgtccat ctgccacctc ttgttaaggc 1200
tctagccaga agggagggtg agggtagaag aaagttattc ccgaagaaaa aaagaatgaa 1260
aagtcattgt actgaactgt ttttatattt ttaaaagtta ctatttaaag gtnaaaaaaa 1320
aaggggggggc ccggtaccca att                                      1343
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<210> 780
<211> 453
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (170)

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<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (366)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (421)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (431)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c


<400> 780
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ctgaggcagg aggatcactt taggcctggt gtgttcaaga ccagcctggt caacatagtg 120
agacactgtc tctaccaaaa aaaggaagga agggacacat atcaaactgn aacaaaatta 180
gaaatgtaat tatgttctaa gtgcctccaa gttcaaaact tattngaatg ttgagagttt 240
ggttacggaa ttcggttngg ggggccaaag ggttgtttta gnttttnaat nccggtntnt 300
ttcgggnaac ccttgggaat ttttggggct ccttgtagnn nncccccttt nggagggggg 360
nntnnntttg ttttnccncc nnggggggnn tttnnttngg ggggancttt ttttcnccn 420
ngttnggntn nnnggttttt ttngggtttt ttt                               453


<210> 781
<211> 498
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<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

<400> 781
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gagccccgga ggtcgaggct acagtgagcc aagagtgcac tactgtactc cagccagggn 120
aagagagcga gaccctgtct caataaataa ataaataaat aaataaataa ataaataaaa 180
acaaagttga ttaagaaagg aagtataggc caggcacagt ggctcacacc tgtaatcctt 240
gcattttgga aggctgaggc aggaggatca ctttaggcct ggtgtgttca agaccagcct 300
ggtcaacata gtgaggacac tgtctcttac caaaaaaagg agggaaggga cacatttcaa 360
atgaaacaaa ttagaatgtt atttatgttc taagtgcctc cagttcaaaa ttttttggat 420
ntttgagntn tggttacgga atacgttagg gggccaaang gatttgtaag tctttaatgc 480
cgttttttca gaaaccta 498

<210> 782
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
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<222> (29)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (396)
<223> n equa.   a,t,g, or c


<220>
<221> misc feature
<222> (431)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (443)
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<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (539)
<223> n equals a,t,g, or c

<400> 782
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ggagtgcaat ggcatgatct cagctcactg caaccttcgc ctcctgggtt caagcgattc 120
tcctgcctcc gcctcctgag tagctgggat tataggcaca caccaccacg cccagctaat 180
tttttgtatt tttagtagag acagagtttc accatgttgg ccaggctggt cttggaactc 240
ctggaccttg tggatccacc cacctcggcc tcccagagtg ctggggatta cagggcatga 300
gccaccacgg cttgggctna aggaacacct aanttttatg tttcttgggn tcaaaaacca 360
gtttccattc nnangttgtc ctcacaagan ggttantggt ggtggagaca gcaggggagg 420
gagggaagag ngtggtttgt aantggttca antcaggcan taagcgattt tagctttaat 480
ttaaagtctt cngtccagnt ttaagcactt ggtaagacag ggctggaagt agcttttcna 540
a                                                                541


<210> 783
<211> 586
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c


<220>
<221> misc feature
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<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
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<220>
<221> misc feature
<222> (435)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (554)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (569)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (577)
<223> n equals a,t,g, or c

<400> 783
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ccgaagcagg gggacagcaa gggacgctca ggcgggcgac catggcggac ggcggctcgg 120
agcgggctga cgggcgcatc gtcaagatgn aggtggacta cagcgccacg gtggatcagc 180
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gcctacccga gtgtgcgant agccaaggaa ggaagacttc aagaagtcat tgaaaccctt 240
ctctctctgg aaaagcagac tcgtactgct tccgatatgg tatcgacatc ccgtatctta 300
gttgccagta gtggaagatg tgctaatgan ggctaaaaga atgggattta anttaatgna 360
aaatgattat gcntttgtcc caaaaggcgg attcagttta aaacaagctg ttgcccaaaa 420
tggttncaac atggncgtac nttatgtttg aaggaaantc acagaacntt cccatccaaa 480
cnttngattn aattgataat cccacgaatg ggtttaccga ggccaagatt ttatgttgga 540
aatggagcgt gcgnactgga tcaaaaccnt agccacnatt aaagga 586
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<210> 784
<211> 226
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<400> 784
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ggccggggac ggtgtgagan cggtaagatg gcggcggcgg cggtggtgga gttccagaga 60
gcccagtctc tactcagcac cgaccgggag gcctccatcg acatcctcca ctccatcgtg 120
aagcgtgaca ttcaggaaaa cgatgaagag gcagtgcaag tcaaagagca gagcatcctg 180
gaactgggat ctctcctggc aaagactnga caagctgcag agctta 226
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<210> 785
<211> 356
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (251)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (254)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c


<400> 785
ccgggntccc gccaccaccg cgcgcgggac agattgattc actttggagc tgtaagtact 60
gatgtattag ggtgcagcgc tcattgttcc ttgacgcaga gtcccaaaat gaatatccaa 120
gagcagggtt tccccttgga cctcggagca agtttcaccg aagatgctcc cccgancccn 180
agtgcctggt gaggagggag aactggtgtc cacagacccg aggcccgcca gctacagttt 240
ctgctccggg naangtgttg gcattaaagg tgagacttcg acggccactc cgaagcgctc 300
ggntctngac ctggggtatg agcctgaggn agtgcttccc naacccanca taattt    356


<210> 786
<211> 512
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (349)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (508)
<223> n equals a,t,g, or c


<400> 786
ggcagagcct gacggcagcc acccggtggt gntggcgccc tacaacggcg ggccggcngg 60
cacgtgcccc aagatcaagc aggaggcggt ctcttcgtgc acccacttgg gcgctggacc 120
ccctctgcag caatggccac cggcgggctg ccacacggac ttccccctgg ggacggcant 180
tccccagcag gacttacccc ggaccctggg tcttgaggga agtgctgagc agcaggggac 240
tgttcaccct gccctgccgg tttcctnccg ggtttccatc cccacccggg ggcccaattt 300
acccatnnct ttcctngncc ccattcagat gcagccgnaa gttnccgnnc gttncattaa 360
ccaagggggtt tatgccaacc ggttnctgga tgccaaagga ggcccaagtc aaaggggggn 420
aaggaggttg tgggcccegg aaaaggaccg gcaaccanat tttgattang gggtttggga 480
aaaacnttca aaaaaggggt tttcccantt tt 512


<210> 787
```

```
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<400> 787
gctgcgcgcc cgcggagcgg cctgggccgg cggcctcctg catcgggcgg ccccctgcag 60
cctcctgccc aggctccgga catggacatc ttccagcaac agatctcgag aagacagctg 120
gctaaaatcc ttatttgtcc ggaaagttga tccaagaaaa gatgcccact ccaatctcct 180
atccaaaaag gaaacaagca atctatacaa attacagttt cacaatgtta aaccggaatg 240
cctagaanca tacaacaaaa tttgtcaaga ggtgttgcca aagattcacg annnataaac 300
actacccttg tactttggtt gggggacttg gnaacacgt                        339

<210> 788
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<400> 788
gcggcagcct tttcccgcgc gtgctgcctt cgccgctcgg gccgcccggg ggaaaacatg 60
gcgtctgccc tggagcagtt cgtgaacagt gtccgacagc tctcagctca aggtttgtga 120
agttttctat gcccagtgtt cctgacttcg aaacgctatt ctcacaggtt cagctcttca 180
tcagcacttg taatggggag cacattcgat atgcaacaga cacttttgct gggctttgcc 240
atcagctaac aaatgcactt gtggaaagaa aacagcccct gcgaggaatt ggcatcctta 300
agcaagccat agacaagatg cagatgaata caaaccagct gacctcaata catgntgatc 360
tctgccagct tgtttgctag caaaangnct tnagctngcc cttca             405

<210> 789
<211> 518
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

<220>
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```
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (515)
<223> n equals a,t,g, or c

<400> 789
tgcgccaagc tctaatacga ctcactatag ggaaagctgg tacgcctgca ggtaccggtc 60
cgggaattcc cgggtcgacc cacgcgtccg cttcctgccg tcgcgtttgc acctcgctgc 120
tccacctctg gggcgcattc caaccttcca gcctgcgacc tgcggagaaa aaaaattact 180
tattttcttg ccccatacat accttgaggc gagcaaaaaa attaaatttt aaccatgagg 240
gaaatcgtgc acatccaggc tggtcagtgt ggcaaccaga tcggtgccaa gttctgggag 300
gtgatcagtg atgaacatgg gcatcgaccc caccgggcac ctaccacggg ggacagcgac 360
ctgccagctg ggaccgcatn ttctgtgtac tgacaatgga agccacaggt ggnaaatgat 420
gtttcctcgt ggccatcctg gtgggatctn agaacctggg naccatggaa tctggttgng 480
ttcaggtccc ttttgggcca ntgttttaga ccagngaa                        518


<210> 790
<211> 386
<212> DNA
<213> Homo sapiens

<400> 790
cgcgaatcgc agcttctgag accagggttg ctccgtccgt gctccgcctc gccatgactt 60
cctacagcta tcgccagtcg tcggccacgt cgtccttcgg aggcctgggc ggcggctccg 120
tgcgtttttgg gccggggggtc gcttttcgcg cgcccagcat tcacgggggc tccggcggcc 180
gcggcgtatc cgtgtcctcc gcccgctttg tgtcctcgtc ctcctcgggg ggctacggcg 240
gcggctacgg cggcgtcctg accgcgtccg acgggctgct ggcgggcaac gagaagctaa 300
ccatgcagaa cctcaacgac cgcctggcct cctacctgga caaggtgcgc gccctggaag 360
cggccaacgg cgagctagag gtgaaa                                      386


<210> 791
<211> 470
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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```
<222> (324)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c


<400> 791
tcgacccacg cgtccgccca cgcgtccgag tggtctgagg aacagctgat tgctgcaaaa 60
ttttgctttg ctggacttct tataggccag actgaagtgg atatcatgag tnatgctaca 120
caggctatat ttgaaatact ggagaaatcc tggttgcccc agaattgtac actggttgat 180
atgaagattg aatttggtgt tgatgtaacc accaaagaaa ttgttcttgc tgatgttatt 240
gacaatgatt cctggagact ctggccatca ggagatcgaa gccaacagaa agacaaacag 300
tcttatcggg acctcaaaga agtnactcct caagggctcc aaatggtaaa gagaaacttt 360
gagtgggttg cagagagagt agagttgctt ttgaaatcag anagtcagtg cagggttgta 420
gtgttgangg gctctacttc tgatcttggt cactgtgaaa aaatccagga          470


<210> 792
<211> 428
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (233)
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```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c
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<400> 792
gtggacatcc gcaaagacct gtacgccaac acggtgctgt cgggcggcac caccatgtat 60
ccgggcattg ctgacaggat gcagaangag atcaccgccc tggcgcccag caccatgaag 120
atcaagatca tcgcaccccc agagcgcaag tactcggtgt ggatcggtgg ctccatcctg 180
gcctcactgt ccaccttcca gcanatntgg attacaagca ggagtacnac aantcgggnc 240
cctccatcgt ccaccgcaaa tgcttctaac ngactcncan atgcttacca ttgctgcatg 300
ggttaattaa naataaaaan tttgcccctg gcaaatgcac acacctcatg cttacctccc 360
caaaattgga ataanccttc caaaaaaaaa ntgttcctta aaacttgttt tcttaatttc 420
nnccttgg                                                      428
```

```
<210> 793
<211> 526
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (170)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (329)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (476)
<223> n equals a,t,g, or c


<220>
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```
<221> misc feature
<222> (509)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c


<400> 793
tgccagaaga cgacagaagg ggcccgcagc gccggagtca aagccggttc ccgcncagtc 60
ccgtcctgca gcagtctgcc tcctctttca acatgacaga tgccgctgtg tccttcgcca 120
agcacttcct ggcaggtgga gtggccgcag ccatctcaag acggcggtan gcccatcgag 180
cgggtcaagc tgctgctgca gttgcaatgc cagcaagcag atcactgcag ataagcaatg 240
caaaggcatt atagactgcg tggtccgtat tcccaaggag caggattctg tccttctggc 300
gcngtaactg gccatgtcat cagatantnc ccanccaggt tcttaatttc gnctttcaag 360
nttaatacaa gcanatnttc ngggtggtg tggnacanga gaacccattt tggggctaan 420
ttgcaggaa tttgggcatc gggtggttcc ncggggcca aattccnggg ttttgngtaa 480
cccctggaat ttgcccgtaa ccgtttaana ttgatttggg gnaaaa        526


<210> 794
<211> 458
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c


<220>
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```
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<400> 794
ggcacgagtg cacctggagc tccaggaggc aagggtgatg ctggtgcccc tggtgaacgt 60
ggacctcctg gattggcagg ggccccagga cttagaggtg gaactggtcc ccctggtccc 120
gaaggaggaa aggqtgctgc tggtcctcct gggccacctg gtgctgctgg tactcctggt 180
ctgcaaggaa tgcctggaga aagaggaggt cttggaagtc ctggtccaaa gggtgacaag 240
ggtgaaccag gcggtccagg tgctgatggt gtcccaggga aagatggccc aaggggtcct 300
antggtccta ttggtcctcc tggcccagtt ggccagcctg gagataaagg gtgaaggtgg 360
tgcccccgga tttccangta taagttggac ctgtggtnag cctggtgaga gaggtgaaat 420
ggccttncag gacngttggt ttncctggtg ttcctgga                        458
```

```
<210> 795
<211> 497
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (  )
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (234)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

```
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (411)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
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```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c
```

```
<400> 795
aattcggcan aggnctaagg gagctgacgg agagggccac cgcccagcaa tagacggtgt 60
ctcagcctgc cgagccgcag tttccgtggt gtgagtaagt ccgggcccgt gtcccctctc 120
ccgccgccgc catgggctgc acgttgagcg ccgaagacaa ggcggcagtg gagcgatgaa 180
gnatgatcga ccgcaactta cgggaggacg gggaaaaagc ggccaaagaa gtgnaagntg 240
ctgctacttc ggtgctggag aatctggtta aaagcaccat ttgtgagaca gatgaaaatc 300
atttcatgag gntgggtatt cagaggtnga atgttaaaca atattaaagt tagttntttt 360
ncagcatnnt tgttncagtg ccntcattgc aatnttnagt ggccttggga ngggtnaaaa 420
aattgatttt ggggaantnt cncagggcaa ttgttgcccg gcaattnttt nttntagntn 480
gtcanttttt tngaggg                                                 497
```

```
<210> 796
<211> 497
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c
```

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<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c


<400> 796
ggcacgaggt gtcggcggct tccctggtcc cggcggtccc ccagcccgag gcggacaacc 60
tgacgctgcg gtaccggtcc ctggtgtacc agctgaactt tgatcagacc ctgaggaatg 120
tagataaggc tggcacctgg gcccccggg agctggtgct ggtggtccag gtgcataacc 180
ggcccgaata cctcagactg ctgctggact cacttcgaaa agcccaggga attgacaacg 240
tcctcgtcat ctttagccat gattctggtc gaccgagatc aatcagttga tcgccggggt 300
tganttctgt tccggttttg caggtgtttn tttncntttc aagcattcaa ttgttancct 360
aacgagtttt ccagtaagtg gaccncagag gatttntccc agagaacntn ccgaagaatg 420
ccctttttna aattgggggc ancaaattga ggtttcccgn tttttgggca tttaaggggg 480
gggcnaattt ttccagg                                                 497


<210> 797
<211> 589
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (493)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (495)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (536)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (538)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (580)
<223> n equals a,t,g, or c


<400> 797
actagttcta gatcgcgagc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 60
gacgtcatag ctcttctata gagtcaccta aattcaattc actggccgtc gttttacaac 120
gtcgtgactg ggaaaaccct ggcgttaccc aacttaatcg ccttgcagca catccccctt 180
tcgccagctg gcgtaatagc gaagaggccc gcaccgatcg cccttcccaa cagttgcgca 240
nctgaatggc gaatgggacg cgccctgtag cggcgcatta agcgcggcgg gtgtggtggt 300
tacgcgcagt gaaccgctac acttgccagc gccctagcgc ccgctccttt cgctttcttc 360
ccttcctttc tcgccacgtt cgccggcttt ccccgtcaag ctctaaatcg ggggctcctt 420
tanggttccg atttagtgct ttacgggcac ctcgacccca aaaaaacttg attangggta 480
atggntcacg tantnгggcc atcgccctga tagacggttt ttcgcctttg acgttngngt 540
```

ccacgttctt aataagtggg atcttgttca aaactggaan aacactcaa   589

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<210> 798
<211> 169
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (162)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c
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<400> 798
ctctaatana tcatatagga agnggtanct gcagtacggt cngaattccc ggctctagag 60
atccaagctt acgtacngcg catgcacgtc atagctcttc tatagtgtca cctaaattca 120
attcactggc cgtcgtttta caacgtcgtg actgggaaaa cnctntgnn          169


<210> 799
<211> 112
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<400> 799
ctctagagga tccaagctta cgtnngcgtg catgcgacgt catagctctt ctatagtgtc 60
agctaaattc aattcactgg ccgtcgtttt acaacgtcgt gantgggaan nc          112


<210> 800
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
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```
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c


<400> 800
gttgactgag acacgcttca aaactggaac tactctgaaa tacacctgcc tccctggcta 60
cgtcagatcc cattcaactc agacgcttac ctgtaattct gatggcgaat gggtgtataa 120
caccttctgt atctacaaac gatgcagaca cccaggagag ttacgtaatg ggcaagtaga 180
gattaagaca gatttatctt ttggatcaca aatagaattc agctgttcag aaggattttt 240
cttaattggc tcaaccacta gtcgttgtga agtccaagat agaggagttg gctggagtca 300
tcctctccca caatgtgaaa ttgtccaagt gtaagcctcc tccagacatc aggaatggga 360
aggcacagcg gnngaagaaa atttctacgc ntaanggggt ttctgtcacc taaagntggg 420
accc                                                             424


<210> 801
<211> 249
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c


<220>
<221> misc feature
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<222> (101)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c


<400> 801
ggcaggtcca cctggaccag gtggaggtgg ccagcnggct gaccctgtgc aaggagggct 60
gtnaggccat tgtngacaca ggcacttccc tcatggtggg nccggtggat gangtgcgcg 120
antgcagaag gccatcgggg ccgtgccgnt gattcanggc gagtacatga ncccctgtna 180
gaaggtgtcc accctgcccg caatnacact gaagctggga ggcaaaggct acaagctgtc 240
cncagagga                                                          249


<210> 802
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```
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<400> 802
acccacgcgt ccgcccacgc gtcccggacg cgtgggtcga cccagctttc tagggcccta 60
gaaactctga caggtgcctt attccagcga cccccactta ttgctgcagt aaagaggcag 120
ctccgagtga ggaccatcta cgagagnana aatgattgaa tacgatcctg aaagaagatt 180
aggaatcttt tgggtgagtt gtgaggctgg cacctacatt cggacattat gtgtgcacct 240
tggtttgtta ttgggagttg gtggtcagat gcaggagctt cggagggttc gttctggagt 300
catgagtgan aaggaccaca tngtgacaat gcatgatgtg cttnatgctc agtggctgta 360
tgntaaccac aaggatgaga gtnacctgcg gggagttctt ta                     402

<210> 803
<211> 542
<212> DNA
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<213> Homo sapiens

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (507)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (527)
<223> n equals a,t,g, or c

<400> 803
ggcacagctt ccgctttacc cgtctccctc ctggcgcttg tcctcctctc ccagtcggca 60
ccacagcggt ggctgccggg cgtggtgtcg gtgggtcggt tggtttttgt ctcaccgttg 120
gntnccgtgc cgttcagttg cccgccatgg ctgagctgga tccgttcggc gccctgccg 180
gcgccctgg ggtnccgcg ctggggaacg gatgnccggc gccggcgaag aagacccggc 240
tgcggccttc ttggcgcaaa gnagaagcga gattgcgggc atcgagaacg acgaggcctt 300
cgccatcctg gaacggcggc gccccgggc cccaaccgca aggaaagtcc ggcgnggggt 360
tccgatgctg ttgnatggan taatgnaatg gtggattatn acnagnaaat taatggttcc 420
aacanaaatt atgcagtatt tcaaaatgga tcgattgcat caaaacctga aatatcctaa 480
atggaganag aaaatggaan nttgaancct taagccaatt tcggaancaa aaacaaatgg 540

aa   542

```
<210> 804
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c


<400> 804
agangaccgg cagcctgtac ctgggcagca gatgaccctg aagatagagg gtgaccacgg 60
ggacnnnccn ngtactggtg gccgtggaca agggcgtgtt cgtgctgaat aagaanaaca 120
aactgacgca gagtaagatc tgggacgtgg tggagaaggc agacatcggc tgcaccccgg 180
gcagtgggaa ggattacgcc ggtgtcttct ccgacgcagg gctgaccnnc acgagcagca 240
gtggccagca gaccgcccag anggcagaac ttcagtgccc gcagccagcc gcccgccgac 300
gcngttccgt gcagctcacg gagaagcgaa tggacaaagt cggcaagtac cccaaggagc 360
tgngcaagtg ctgcgaggac ggcattcggg agaaccccat gaagttctcg tgccagggcg 420
gg                                                                   422


<210> 805
<211> 566
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c


<400> 805
cgagctgacc ctgatcaggg ccgagttgtc tcggcggcgc tgccgaggcc tccacccggg 60
gagggtggtt accgctgagg agctgcagtc tctgtcaaga tgatagaggt actgacaaca 120
actgactctc agaaactgct acaccagctg aatgccctgt tggaacagga gtctagatgt 180
cagccaaagg tctgtggttt gagactaatt gagtctgcac acgataatgg cctcagaatg 240
```

```
actgcaagac taagggactt tgaagtaaaa gatcttctta gtctaactca gttcttggct 300
tgacacagag acatttctct agctgtgaat tactggacag antcctgtct aaaatgaang 360
tacagcccaa gcacctgggt gtgttggact gagctgcttt tatttggctg taaaatcaat 420
agaagaggaa aaggatgtcc cattggcaac tgacttgatc cgaataagtc aatataaggt 480
tacgggttca gactgatgag aatgggaaaa attgtattng agaaggtgtg tttggaagtc 540
aagctactaa tgcctttcaa ttctgc                                        566
```

```
<210> 806
<211> 438
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<400> 806
cccagtccta gctgctggca tcactatact actaacagac cgcaacctca acaccacctt 60
cttcgacccc gccggaggag gagaccccat tctataccaa cacctattct gatttttcgg 120
tcaccctgaa gtttatattc ttatcctacc aggcttcgga ataatctccc atattgtaac 180
ttactactcc ggaaaaaaag aaccatttgg atacataggt atggtctgag ctatgatatc 240
aattggcttc ctaggtttta tcgtgtgagc acaccatata tttacagtag gaatagacgt 300
agacacacga gcatatttca cctccgctac cataatcatc gcttatcccc accggcgtca 360
aagtattagc tgactcgcca canttccacg ggagcaatat gaaatgatct ggctgcagtg 420
ctctgagncc taaggant                                                 438
```

```
<210> 807
<211> 236
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (219)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c


<400> 807
ctcgtgccga attcggcacg agaaactttc ctcactatct gcttcatccg ccaactaata 60
tttcactttta catccaaaca tcactttggc ttcgaagccg ccgcctgata ctggcatttt 120
gnacatgtgg tttgactatn tccgtatgtc tccatctatt gatgagggtc ttaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaanccccng ggggggncc nggacc       236


<210> 808
<211> 552
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<400> 808
ggcacgagtg gagaaccggg cccagcagca ctggggcagt ggagtgggag tgaagaagct 60
gtgtgaactg cagcctgagg agaagtgctg tgtggtgggc actctgttca aggccatgcc 120
gctgcagccc tccatcctgc gggaggtcag cgaggagcac aacctgctcc cccagcctcc 180
tcggagtaaa tacatacacc cagatgacga gctggtcttg gaagatgaac tgcagcgtat 240
caaactaaaa ggcaccattg acgtgtcaaa gctggttacg gggactgtcc tggctgtgtt 300
tggctccgtg agagacgacg ggaagtttct ggtggaggat tattgctttg ttgaccttgc 360
tccccagaag cccgnacccc cattgacaca gttaggttnt gttantggtg tccggcctgg 420
gcctgggtgg cgttggaggc gagagcntgt tgggcaccca ttgttggtgg atntggtgac 480
ggggcagttt ggggacgaag ggnagcatgc ancgcngcca agtttcccgg ttatcctggt 540
tgnaacttct aa                                                      552

<210> 809
<211> 380
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
```

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<400> 809
```
ggcacgaggc tgaggcggcg ccagttggcc gggcacgggg ctgctgtaag gccgaggttg 60
cggcggaagc ggagaccatg ttccgagcgg cggctccggg gcagctccgg cgggcggcct 120
cattgctacg atttcagagt accctggtaa tagctgagca tgcaaatgat tccctagcac 180
ccattacttt aaataccatt actgcagcca cacgccttgg aggtgaagtg tcctgcttag 240
tagctggaac caaatgtgac aaggtggcac aagatctctg taaagtagca ggcatagcaa 300
aaagttctgg tggctcagca tgaatgtgta caagggctta cttccagang gaactgaana 360
cnatnatttt tggaaactcn                                            380
```

<210> 810
<211> 416
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<400> 810
aagaaagtag aggacatgat gaagaagctg tggggtgacg gcccagaagt accgctgcga 60
gctcctgtac gaggggcccc cggacgacga ggctgccatg ggcattaaaa gctgtgaccc 120
caaaggcccc cttatgatgt atatttccaa aatggtgcca acctccgaca aaggtcggtt 180
ctacgccttt ggacgagtct tctcggggct ggtctccact ggcctgaagg tcaggatcat 240
ggggcccaac tatacccctg ggaagaagga ggacctctac ctgaagccaa tccagagaac 300
aatcttgatg atgggccgct aagtggaagc ccatcgaagg atgtgccttg tnggacatt 360
ttgggcctcg tggcgttgga ccantccttg tgaaaacggg naccannaac aacttc      416


<210> 811
<211> 748
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (619)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (668)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (671)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (714)
<223> n equals a,t,g, or c


<400> 811
gccgcccagc cacgcctcat ggagcccatc taccttgtgg agatccagtg tccagagcag 60
gtggtcggtg gcatctacgg ggttttgaac aggaagcggg gccacgtgtt cgaggagtcc 120
caggtggccg gcacccccat gtttgtggtc aaggcctatc tgcccgtcaa cgagtccttt 180
ggcttcaccg ctgacctgag gtccaacacg ggcggccagg cgttcccccca gtgtgtgttt 240
gaccactggc agatcctgcc cggagacccc ttcgacaaca gcagccgccc cagccaggtg 300
gtggcggaga cccgcaagcg caagggcctg aaagaaggca tccctgccct ggacaacttc 360
```

```
ctggacaaat tgtaggcggc ccttcctgca gcgcctgccg ccccgggggac tcgcagcacc 420
cacagcacca cgtcctcgaa ttctcagacg acacctggag actgtcccga cacagcgacg 480
ctcccctgag aggtttctgg ggcccgctgc gtgccatcac tcaaccataa cacttgatgc 540
cgnttctttc aatatttatt tccagagtcc ggaggcagca gacacgccct cttagtaggg 600
acttaatggg ccggtcggng aggggaggc gggatgggac acccaacact tttttcattt 660
cttcagangg naaacttcag atgtccaaac taattttaac aaacgcatta agaggttaa 720
tttgggtaca atgggcccga atggcttt                                   748
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<210> 812
<211> 562
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<400> 812
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aagnnganac aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcggccgc 60
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagcacaat ttgcgcgctc 120
tctttctgct gctccccagc tctcggatac agccgacacc atgggtttcg gagacctgaa 180
aagccctgcc ggcctccagg tgctcaacga ttacctggcg gacaagagct acatcgaggg 240
gtatgtgcca tcacaagcag atgtggcagt atttgaagcc gtgtccagcc caccgcctgc 300
cgacttgtgt catgccctac gttggtataa tcacatcaag tcttacgaaa aggaaaaggc 360
cagcctgcca ggagtgaaga aagctttggg caaatatggt cctgccgatg tggaagacac 420
tacaggaagt ggagctacag atagtaaaga tgatgatgac attgacctct ttggatctga 480
tgatgaggag gaaagtgaag aagcaaagag gctaagggaa gaacgtcttg cacaatatga 540
atcaaagaaa gccaaaaaac ct                                         562
```

<210> 813
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>

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<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<400> 813
gaaaataagn gatgntcgan gtgaaanacc atactaaagg gncaaaantn gantcaccgc 60
ggtgcggcng tctagactag tggatccccc gggctgcagg aattggcacg aggttagttt 120
ctgcgacttg tgttgggact ggaagatgtc ttcaggaaat gctaaaattg ggcaccctgc 180
ccccaacttc aaagccacag ctgttatgcc agatggtcag tttaaagata tcagcctgtc 240
tgactacaaa ggaaaatatg ttgtgttctt cttttaccct cttgacttca cctttgtgtg 300
ccccacggag atcattgctt tcagtgatag ggcagaagaa tttaagaaac tcaactgcca 360
agtgattggt gcttctgtcg gattctcactt ctgtcatcta gcatgggtca ataca    415

<210> 814
<211> 316
<212> DNA
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<213> Homo sapiens

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (154)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c


<400> 814
aaagggacaa aagcnggagc nccaccgcgg ggcgnccgct ctagaactag tggatccccc 60
gggctgcagg aattcggcac agctntgggg gantcctggt gcacccccan ngggtctnct 120
ntgctgccca ttgcctaaag aagaatagcc aggnctggct gggtcggcac aacctgnttg 180
agcctnaaga cacangccag agggtccctn tcagccacag cttcccacac ccgctctgac 240
```

aatantnagc ctttctgaag catcaaagcc ttagaccagn tgaagactcc agccatgacc 300
tcangctgct ccgnct   316

<210> 815
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (506)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (507)
<223> n equals a,t,g, or c

<400> 815
ggcacagcnc gcatgggctg cggggccgcg cgagctcgcc tccgtcctct gcctccgcag 60
aacgccgcga tggctgcgca gggagagccc caggtccagt tcaaagtagg taaccctgcg 120
ggcggcaggc ggccgagccc gaccgcgtgc gactcgcggg tccctcctcc tggggccacg 180
atggctgtaa tggggccccg catccacatt ctttgtttta agtgagcctg tggtggttaa 240
agttccgtga ctctgggatc ttganaggtg aatgtttang gtttacttcc aaaatgtgtt 300
tttcaacanc ttgtaatggt tggtgatggt ggtaanggga aaaacgacnt cgtggaantg 360
catttgactg gtggaatttg agaanaatgt gttagccanc ttgggtgttg gaggttcaac 420
ccccaatgtt tccacancaa cagaggaccc attaagttca atgtantggg acacagccgg 480
ccaggngaat tccgtggact ggaaann 507

<210> 816
<211> 551
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)

<223> n equals a,t,g, or c

<400> 816
```
cnagtgtaga cagcnaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg 60
gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgagc aggcatgcag 120
aaggctgacg tctatagctt tgggatcatc ctgcaggaga tagcacttcg cagtggtcct 180
ttctacttgg agggcctgga cctcagcccc aaagagattg tccagaaggt acgaaatggt 240
cagcggccat atttccggcc aagcattgac cggacccaac tgaatgaaga gctagttttg 300
ctgatggagc gatgttgggc tcaggaccca gctgagcggc cagactttgg acagattaag 360
ggcttcattc ggcgctttaa caaggagggt ggcaccagca tattggacaa cctcctgctg 420
cgcatggaac agtatgccaa taacttggag aagctggtgg aggaacgcac acaggcctat 480
ctggaggaaa aacgcaaggc tgaagctctg ctctaccaaa tcctacccca ttcagtggca 540
gagcagttaa a                                                    551
```

<210> 817
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220> .
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<400> 817
gggagacatt naagannttc aaggatccca atgcacccaa gaggcctcct tcggccttct 60
tcctcttctg ctctgagtat cgcccaaaaa tcaaaggaga acatcctggc ctgtccattg 120
gtgatgttgc gaagaaactg ggagagatgt ggaataacac tgctgcagat gacaagcagc 180
cttatgaaaa gaaggctgcg aagctgaagg aaaaatacga aaaggatatt gctgcatatc 240
gagctaaagg aaagcctgat gcagcaaaaa agggagttgt caaggctgaa aaaagcaaga 300
aaaagaagga agaggaggaa gatgaggaag atgaagagga tgaggaggag gaggaagatg 360
aagaagatga angatgnnna cacntg                                      386

<210> 818
<211> 364
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<400> 818
ggcacgagaa aatgtcaggc ctgattatct aaaagctatt tggaatgtaa tcaactggga 60
gaatgtaact gaaagataca tggcttgcaa aaagtaaacc acgatcgtta tgctgatcat 120
accctaatga tcccagcaag ataatgtcct ttcttctaag atgtgcatca agcctggtac 180
```

```
atactgaaaa ccctataagg tcctggataa tttttgtttg attattcatt gaagaaacat 240
ttattttcca attgtgtgaa gtttttgact gttaataaaa gaatctgtca accatcaaaa 300
aaanaaaaaa aaaaaacctg ggggggggcc ccgnanccna tttggccctt tggggggggg 360
tntt                                                             364
```

<210> 819
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>

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<221> misc feature
<222> (355)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c


<400> 819
ntgatagaca agaangaaag taacccgnac taaagggaac aaaagcngga gctccaccgc 60
ggtgccgncc gctctagaac tagtggatcc cccgggctgc aggaattcgg cacgagctcc 120
gccagacagc gggncaaagt gctggcccat ttctatgggg tgaagctgga gggcaaggtg 180
cccatgcaca agctgttctt ggagatgctc gaggccatga tggactgagg caaggggtgg 240
gactggtggg ggttctggcc aggacctgcc ttagcatggg gtccagcccc aagggctgng 300
gcggactggg gtctgggcat gccacagcct gctggcaggc cagggcatgc cntcncccng 360
gggaacaggc cccacgccnt ttcttcccct tctaaggggt gttcaaaact gggaactttt 420
ttccaggttt tgggcacatt gttgcccctt tnnanncata aa                   462


<210> 820
<211> 449
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
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<222> (8)
<223> n equals a,t,g, or c

<400> 820
gcgcgcantc ccggctccct ccccttcgg atgtggcttg agctgtaggc gcggagggcc 60
ggagacgctg cagacccgcg acccggagca gctcggaggc ggtgaataat agctcttcaa 120
gtctgcaata aaaaatggcc tccaacaaaa ctacattgca aaaaatggga aaaaaacaga 180
atggaaagag taaaaaagtt gaagaggcag agcctgaaga atttgtcgtg gaaaaagtac 240
tagatcgacg tgtagtgaat gggaaagtgg aatatttcct gaagtggaag ggatttacag 300
atgctgacaa tacttgggaa cctgaagaaa atttagattg tccagaattg attgaagcgt 360
ttcttaactc tcagaaagct ggcaaagaaa aagatggtac caaaagaaaa tctttatctg 420
acagtggatc tgatgacagc aaacaaaga 449

<210> 821
<211> 453
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c

<400> 821
cgcgtccggc ctgactgctt gttcgtctna ctggtgtgag ctccagcatc ccctttgctc 60
gaaatggacc ccaactgctc ttgcgccact ggtggctcct gcacgtgcgc cggctcctgc 120

```
aagtgcaaag agtgcaaatg cacctcctgc aagaagagct gctgttcctg ctgccccgtg 180
ggctgtgcca agtgtgccca gggctgcgtc tgcaaagggg catcggagaa gtgcagctgc 240
tgtgcctgat gtgggaacag ctcttctccc atatgtaaat agaacaacct gcacaacctg 300
gattttttta aaaatacaac actgagccat ttgctgcatt tcttttatac taaatatgtg 360
actgacaata aaaacaattt tgactttaaa anaaaaaaaa aggggggccnt ttggggtccc 420
tggggggccan ttnngggggat cgggaaagtt tcc                            453
```

<210> 822
<211> 474
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

<400> 822
gaactaatgt tagtataagt aacatgaaaa cattctcctc cgcataagcc tgcgtcagat 60
taaaacactg aactgacaat taacagccca atatctacaa tcaaccaaca agtcattatt 120
accctcactg tcaacccaac acaggcatgc tcataaggaa aggttaaaaa aagtaaaagg 180
aactcggcaa atcttacccc gcctgnttac caaaaacatc acctctagca tcaccagtat 240
tagaggcacc gactgccca. gtgacacatg tttaacggcc gcggtaccct aaccgtgcaa 300
aggtagcata atcacttggt ccttaattan ggacctgtat gaatggctcc acgagggttc 360
aagctgnctc ttactttaa ccagtgaaaa tgacctgncc gngaagaggc gggcataaca 420
cagcangacc aagaagaccc tatggagctt taatntatta ngcaaacagt ccta      474


<210> 823
<211> 463
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<400> 823
gcccacgcgt ccgcccacgc gtccgccctc tcccaacatg gcggcctcag caaaaaagaa 60
gaataagaag gggaagacta tctccctaac agactttctg gctgaggatg ggggtactgg 120
tggaggaagc acctatgttt ccaaaccagt cagctgggct gatgaaacgg atgacctgga 180
aggagatgtt tcgaccactt ggcacagtaa cgatgacgat gtgtataggg cgcctccaat 240
tgaccgttcc atccttccca ctgctccacg ggctgctcgg gaacccaata tcgaccggag 300
ccgtcttccc aaatcgccac cctacactgc ttttctagga aacctaccct atgatgttac 360
agaagagtca attaaggaat tctttcgagg attaaatatc agtgcagtgc gtttaccacg 420
tgaacccagc aatccagaga ngttgaaagg tttgggtatg ctg               463


<210> 824
<211> 599
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (88)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (234)
<223> n equals a,t,g, or c


<220>
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<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
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<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
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<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (329)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (474)
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<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (544)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (579)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (581)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (586)
<223> n equals a,t,g, or c


<400> 824
gctnagatnt tcccatatac tgtggacaat gcccgcatcg ttctgnagat tgacaatgcc 60
cgtcttgctg ctgatgactt tagaggcnag tatgagacag atctggccat gcgccantct 120
gtgganaacg acatccatgg gctccgaaag gtcattgatg acaccaatat cacacgactg 180
canctggaga cagagatcga ggntctnang gaggatctgc tcttcatgaa naanaaccac 240
taagaggaan gancaaggcc tacaagccca nattgccanc tctgggntga ccgnggaggt 300
anatgcnccc aaatctcang acctcgcnna gancatggga gacatcccgg cccaatatga 360
cnagctggct cntaagaacc gagangaagc tagaccagta ctggtcttaa acanattnan 420
ganagcacca cagtggtcan cacacagtct gctgaagttg gaactgctga aacnacgctc 480
acaganctta gacgtacagg ccattccttg gaaatatgaa ctggacttca ttagaaatct 540
gaangccctc ttggaaaaca accttgacgg gaagtggang ncccgntacg accttacaa  599


<210> 825
<211> 500
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c


<220>
<221> misc feature
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<222> (319)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (463)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (494)
<223> n equals a,t,g, or c

<400> 825
aattcggcac gaggaggaat gttaagttga ttgccctttc aatagacagt gttgaggacc 60
atcttgcctg gagcaaggnt atcaatgctt acaattgtga agagcccaca gaaaagttac 120
cttttcccat catcgatgat aggaatcggg agcttgccat cctgttgggc atgctggatc 180
cagccagaga aggatgaaaa gggcatgcct gtgacagctc gtgtggtgtt tgtttttggt 240
cctgataaga agctgaagct gtctatcctc tacccagcta ccactggcag gactttgatg 300
agatctcagg gtagtccanc tctctccagc tgacanagaa aaagggttgc acccagttga 360
ttggaggntg ggataggtat ggcctccacc ncctgagaga gcaaaaattt tccgnagagn 420
tnacaagngt ccttgcagan actcgtaaac cagctaagtn tgngagtgnn ttngcaagtn 480
taatccattt ttcngagatc   500

<210> 826
<211> 511
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (274)

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<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (483)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c

<400> 826
aattcggcac gagcaggctg cttcttcgcc agaaccaacc ggttgcttgc tgtcccagcg 60
gcgccccctc atcaccgtcg ccatgcccgg aggtctgctt ctcggggacg tggctcccaa 120
ctttgaggcc aataccaccg tcggccgcat ccgtttccac gactttctgg gagactcatg 180
gggcattctc ttctcccacc ctcgggactt taccccagtg tgcaccacag agcttggcag 240
agctgcaaag tggcaccaga atttgncaag aggnatgtta agttgattgc cctttcaata 300
gacagtgttg aggaccatct tgcctggagc aaggatatca atgnttacaa ttgtgagggg 360
ccacagaaag ttacctttc ccatcatcgt gataggatcg gagttnccat cctnttggna 420
ngtnggtcca cagagaaggt gaaagggang cctttnagtc gtgtggngtt ttttttggccc 480
gtnagaagtn aagtgntatc ttaccagtac c                               511

<210> 827
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (517)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c


<400> 827
tntnaacnga tttaggtgac actatagaag gtacgcctgc agtaccggtc cggaattccc   60
gggtcgaccc acgcgtccgc cacggtccgc actgcctctt cccttctcgc ttgggaactc  120
tagtctcgcc tcgggttgca atggaccccca actgctcctg tgccgctgag gtgtctcctg  180
cacctngcca gtcctgcaag tgcaaagagt gcaaatgcac ctcctgcaag aagagctgct  240
gctcctgctg ccctgtggct gtgccaagtg tgcccagggc tgcatctgca aaggggcatc  300
ggagaagtgc agctgctgcg cctgatgtcg ggacagccct gctcccaagt acaaatagag  360
tgacccgtaa aatccaggat tttttgtttt ttgctacaat cttgacccct ttgctacatt  420
cctttttttc tgtgaaatat gtgaataata attaaacact tagacttgaa aaaaaaaana  480
aaaaaanaaa aaaggggggn cctttttagg gggttcncn                         519


<210> 828
<211> 442
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c


<400> 828
ancagcgcac natngggaac ntggncgcct gcaggtaccg gaccggaatt cccgggtcga 60
cccacgcgtc cgggagggga cacgggctca ttgcggtgtg cgccctgcac tctgtccctc 120
actcgccncc gacgacctgt ctcgccgagc gcacgccttg ccgccgcccc gcagaaatgc 180
ttcggttacc cacagtcttt cgccagatga gaccggtgtc cagggtactg gctcctcatc 240
tcactcgggc ttatgccaaa gatgtaaaat ttggtgcaga tgcccgagcc ttaatgcttc 300
aaggtgtaga ccttttagcc gatgctgtgg ccgttacaat ggggccaaag ggaagaacag 360
tgattattga gcagagttgg ggaagtccca aagtaacaag agatggtgtg actgttgcaa 420
agtcattgac ttaaaagnaa at                                         442


<210> 829
<211> 504
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c


<400> 829
aattcggcac gagcctgtnt cgccgagcgc acgcnttgcc gccgccccgc agaaatgctt 60
cggttaccca cagtctttcg ccagatgaga ccggtgtcca gggtactggc tcctcatctc 120
antcgggctt atgccaaana tgtaaaattt ggtgcagatg cccgagcctt aatgcttcaa 180
ggtgtagacc ttttagccga tgctgtggcc gttacaatgg ggccaaaggg aagaacagtg 240
attattgagc agagttgggg aagtcccaaa gtaacaaaag atggtgtgac tgttgcaaag 300
tcaattgact taaaagataa atacaaaaac attggagcta aanttgttca agatgttgcc 360
antaacacaa ttgaggagct ggggatggca ntaccatgct actgttatgg cacgtctata 420
gccaaggaag gtttcgagaa ggttagcaag gtgctaatcc atgggaatca ggagaggtgt 480
gatgttagng ttgatgctgt attg                                      504


<210> 830
<211> 582
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c


<400> 830
gtcgtnacna nnntntatta aagggttcan aagctggagc tccaccgcgg tgcggccgct 60
ctagaactag tggatccccc gggctgcagg aattcggcac aattcggcac gagggaaggt 120
gctgtgtaat cattaaggag cggaggcttt tggagctgct aaaatgccgg attacctcgg 180
tgccgatcag cggaagacca aagaggatga gaaggacgac aagcccatcc gagctctgga 240
tgagggggat attgccttgt tgaaaactta tggtcagagc acttactcta ggcagatcaa 300
gcaagttgaa gatgacattc agcaacttct caagaaaatt aatgagctca ctggtattaa 360
agaatctgac actggcctgg ccccaccagc actctgggat ttggctgcag ataagcagac 420
actccagagt gaacagcctt tacaggttgc caggtgtaca aagataatca atgctgattc 480
ggaggaccca aaatacatta tcaacgtaaa gcagtttgcc aagtttgtgg tggaccttag 540
tgatcaggtg gcacctactg acattgaaga agggatgaga gt               582


<210> 831
<211> 385
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (274)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<400> 831
cccacgcgtc cgcccacgcg tccgggcggt ggccggtgcg gcgtgttcgg tggcggctct 60
ggccgctcag gcgcctgcgg ctgggtgagc gcacgcangg cggcgaggcg gcacgtgttt 120
ctaggtcgtg gcgtcgggct tncggagctt tggcggcact aggggaggat ggcggagtct 180
tcggataagc tctatcgagt cgagtacgcc aagagcgggc gcgcctcttg caagaaatgc 240
agcgagacat ccccaaggac tcgctccgga tggncatcat ggtgcatcgc ccatgtttga 300
tggaaaagtc cacatggtac anttctcctg cttctggaag tgggcaatcc atccgnanct 360
gactttaagt gannggtttc ttata 385

<210> 832
<211> 505
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (162)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (411)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c


<220>
<221> misc feature
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<222> (474)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c


<400> 832
ggcanagtgc agcctcagtg ctatgaaggt gacagcgtga ggtgacccat ctggcccgcc 60
gcgatgctgg caacacggcg gctgctcggc tggtcgcttc ccgcgcggac agcacccaag 120
aaaacctcat ttggctcgct gaaggatgaa gaccggattt tnaccaacct gtacggccgc 180
catgactgga ggctgaangt tccctgagtc gaggtgactg gtacaagaca aaggagatcc 240
tgctgaaggg gcccgactgg atcctgggcg agatcaagac atcgggttta aggggccgtg 300
gaggcgctgg cttccccaat ggcctcaagt ggngnttcat gataaggcct cagatggcag 360
gcccaagtat ttggtggttn aacgcaaacg agggggggagc cgggnaactg naagaaccgg 420
ggggtttta ggccnggntc ttaaaaagtt tttgaaggtt nctttgttgg gggnccggnc 480
atgggggccc ggttgnntat ttttt 505


<210> 833
<211> 444
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c


<220>
<221> misc feature
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<222> (444)
<223> n equals a,t,g, or c

<400> 833
gctgcgagaa gacgacagaa ggggctctcc cctcgtccac cgctgccgcc tccttcttct 60
gccgctcctg gtgctgcttg tgtgctcgtt tggtgcggac ctggtacctc ttttgtgaag 120
cggcagctga ggagactccg gcgctcgcca tggccgacga aaagcccaag gaaggagtca 180
agactgagaa caacgatcat attaatttga aggtggcggg gcaggatggt tctgtggtgc 240
agtttaagat taagaggcat acaccactta gtaaactaat gaaagcctat tgtgaacgac 300
agggattgtc aatgaagcag atcagattcc gatttnacgg gcaaccaatc aatgnaacag 360
acacacctgc acagttgggn aatgggagga tgaagatacc aatgatgtgt tccaaacagc 420
agacgggagg tgtctactga aaan 444

<210> 834
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
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<223> n equals a,t,g, or c

<400> 834
cccacgcgtc cgcccacgcg tccgcgccgc tcgctatggc gtcgctcacc gtgaaggcct 60
accttctggg caaggaggac gcggcgcgcg agattcgccg cttcagcttc tgctgcagcc 120
ccgagcctga ggcgggaagc nnggctgcgg cgggtccggg acccttgcga gcggctgctg 180
agccgggtgg ccgccctgtt ccccgcgctg cggcctggcg gctttccagg cgcactaccg 240
cgattgagga cggggatttg ttgctttttt ccattgacga ggatttgaca tgggcatgtt 300
ctacgttgaa gatgaatctt tncgatttta natttnaaga gaaaanattt ccggcgggga 360
cacgncaagt   370

<210> 835
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (174)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<400> 835

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cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgca atgagcttcg 60
tgttgcccct gaagagcatc ccaccctgct cacggaggca cccctgaacc ccaaggccaa 120
ccgggagaaa atgactcaaa ttatgtttga gactttcaat gtccaagcca tgtntttggc 180
tatccaggcg gtgctgtctc tctatgcctc tggangcaca atggaatcgt gctggactct 240
ggagatggtg tcacccanaa tgtcccaatn tatgagggct atgcttgncc ccatgcaata 300
natgggtctg natttgg                                                317
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<210> 836
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c
```

```
<400> 836
ccctctgcgc ggcaacgtgg tcccaagccc actgcccact cgcnggacga ggacctttc 60
ggcgacggtg cgggcttcan agggncccgt ttacaaagga gtctgcaaat gcttctnccg 120
gtccaagggc catggcttca tnnccccagc tgatggcggc cccgacatct tcctgcacat 180
ctttgaatgn gnaaggggga gtatgtncca ntggaaggcg acgaggtcan ctataaaatg 240
tgcttccatc ccacccaaga ntgagaagct ncaagccgtg ggagttcgtc atcaatcacc 300
tggcaccagg naccaagtat gagacctggt tttggacant ttcatcantt tcntaggaga 360
ttggttggaa gcancccttt tt                                        382


<210> 837
<211> 375
<212> DNA
<213> Homo sapiens

<400> 837
cggagtttct cctcggggtc ggagcaggag gcacgcggag tgtgaggcca cgcatgagcg 60
gacgctaacc ccctccccag ccacaaagag tctacatgtc tagggtctag acatgttcag 120
ctttgtggac ctccggctcc tgctcctctt agcggccacc gccctcctga cgcacggcca 180
agaggaaggc caagtcgagg gccaagacga agacatccca ccaatcacct gcgtacagaa 240
cggcctcagg taccatgacc gagacgtgtg gaaacccgag ccctgccgga tctgcgtctg 300
cgacaacggc aaggtgttgt gcgatgacgt gatctgtgac gagaccaaga actgccccgg 360
cgccgaagtc cccga                                                375


<210> 838
<211> 484
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c


<220>
<221> misc feature
```

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<222> (36)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (300)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (368)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (476)
<223> n equals a,t,g, or c

<400> 838
nttctgancc cagntgancc aatagaaggt acgccngcag gttaccgcgt ccggaaattc 60
ccgggtcgac ccacgcgtcc ggccagccgt tcacgcgttc ggtcctcctt ggctgantca 120
ccgccctcgc cgccgcanca tggacgcccc cangcaggtg gtcaactttg ggcctggtcc 180
cgccaanctg ccgcactcag tgttgttaga gatacaaaag gaattattag actacaaagg 240
aattggcatt agtgttcttg aaatgantca cangtcatca gattttgcct agattattan 300
caatacagaa aatcttgtgc gggaattgct aactgttcca gacaactata angtgatttn 360
tctggcangg aagtgggtgc ggccaattca ntgctgtccc ttaancctca ttggcttgaa 420
agcangaaag tgtgcggact atgtngtgac aggaacttgg tcagctaagg gcgcanaaaa 480
aacc                                                                484

<210> 839
<211> 473
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
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```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (411)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (431)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c


<400> 839
ggcanagtga agacagcaag tttcggatcc gcagcgcact gtaatggttg tcctctacag 60
ccatgtattc ggctgctggc agagacttgg ggatggaacc gcacagagcc gcgggcccct 120
tgccagctgc gaattttcgc cctgacgttt tcaacggagg tgactatact gggcaattgc 180
tggagaagat tttgccaatt gttgcttctg aatactcgat tgantgaaag ggttttnaat 240
tcatacgcgg ggttagccc? aaatgttaca anttaaacag ncaaaacagt ccattggatg 300
cagcggtttt ccatggagac tgttcttacg gntgacaaag attttttgaa gcaagactaa 360
agntgtatta ggcattccca ttattaaggc ctggattacg gggggggcatt nctgcaatgc 420
tgtcnaaaat ncccgtnttt caaggngttt tttnccctac tntggtttac aac       473


<210> 840
<211> 279
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c


<400> 840
ggcanaggat cacttgagct caggagctcg natgcagcct ggggaacatg gtgaaccttg 60
tntctacata aaatacaaaa acttagatgg gcatggtgct gtgngcctat agtcccacta 120
cttgtggggc taaggcagga ggatcacttg agccccggag gtcgaggcta cantgcgcca 180
agagtgcact actgtactcc agccagggca aggagagcga gaccctgtnt caaataaata 240
aatnaantta attaaataan taatttaaat aaaagcnaa                       279


<210> 841
<211> 234
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c
```

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<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c


<400> 841
cgggctgcag agtaaatcag gccgcggtaa natggcacga gcaggtctnc tggttatcgg 60
aggnaaggnn tggcgaaacg gtgtattacc gtttgctacc agnnaagaac gtganganaa 120
gangggcacg aggcctggtt tttaaggagt gtcgccagag tgcctcgatg anacgggtat 180
tggcggtata tggagttaaa agatgaccan ctanangact gagctagtan cagg    234


<210> 842
<211> 460
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c
```

```
<400> 842
gtcgacccac gcgtccgctg accagcacca tngcggttgg caagaacaag cgccttacga 60
aaggcggcaa aaagggagcc aagaagaaag tggttgatcc attttctaag aaagattggt 120
atgatgtgaa agcacctgct atgttcaata taagaaatat tggaaagacg ctcgtcacca 180
ggacccaagg aaccaaaatt gcatctgatg gtctcaaggg tcgtgtgttt gaagtgagtc 240
ttgctgattt gcagaatgat gaagttgcat ttagaaaatt caagctgatt actgaagatg 300
ttcagggtaa aaactgcctg actaacttcc atggcatgga tcttacccgt gacaaaatgt 360
gttccatggt caaaaaatgg canacaatga ttgaagctca cgttgatgtc aagactaccg 420
atggttactt gcttcgctgt tctgngntgg ntntactaaa 460
```

```
<210> 843
<211> 597
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c
```

```
<400> 843
cagtgnngac accaanccat cactaaaggg aacaaaagct ggagcnccac cgcggtgcgg 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgaggt ccttccgagg 120
aagctaaggc tgcgttgggg tgaggccctc acttcatccg gcgactagca ccgcgtccgg 180
cagcgccanc ctacactcgc ccgcgccatg gcctctgtct ccgagctcgc ctgcatctac 240
tcggccctca ttctgcacga cgatgaggtg acagtcacgg aggataagat caatgccctc 300
```

```
attaaagcag ccggtgtaaa tgttgagcct ttttggcctg gcttgtttgc aaaggccctg 360
gccaacgtca acattgggag cctcatctgc aatgtagggg ccggtggacc tnctccagca 420
gctggtgctg caccagcagg aggtcctgcc ccctccactg ctgctgctcc agctgaggag 480
aagaaagtgg aagcaaagaa agaagaatcc gaggagtctt atgatgacat gggctttggt 540
cttttttgact aaacctcttt tataacatgt tcaataaada gctgaacttt acaaaaa    597
```

<210> 844
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (276)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<400> 844
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```
nnggnnnnca aattanccct gcactgaang gnaacaaaag ctgggagctc ncaccgcggt 60
ggnggccgct ctagtaacta gtggatcccc cgggnctgca gggaattcgg gcacgagcaa 120
gccaagatgg gtgcnataca agtacatcca ggtagctatg gagaaagaag cagtctgatg 180
tcatgcgctt tcttctgagg gtccgctgct ggcagtaccg ccanctctct gctctccaca 240
gggnctcccc gccccacccg gcctgataaa gcgcgncgac tgggctacaa ggccaagcaa 300
ggttacgtta tatataggat tcgtgttcgc cgtggtggcc gaaaacgccc agttcctaag 360
ggtgcaactt acggcaagcc tgtccatcat ggtgttaanc anctaaagtt tgctcgaagc 420
cttcagtccg ttgcagagga gcgagctgga cgccactgtg gggctctgag agtcctgaat 480
tcttactggg ttggtgaaga tt                                         502
```

```
<210> 845
<211> 601
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c


<400> 845
gcnganacna accctcacta aagggaacaa aagctggagc tccaccgcgg tgacgaccgc 60
tctagaacta gtggatcccc cgggctgcag gaattcggca gagctttgct tttccatccg 120
cctttgatcg tcttcctctt cagccatcca ggtaagccaa gatgggtgca tacaagtaca 180
tccaggagct atggagaaag aagcagtctg atgtcatgcg ctttcttctg agggtccgct 240
gctggcagta ccgccagctc tctgctctcc acagggctcc ccgccccacc cggcctgata 300
aagcgcgccg actgggctac aaggccaagc aaggttacgt tatatatagg attcgtgttc 360
gccgtggtgg ccgaaaacgc ccagttccta agggtgcaat tacggcaagc ctgtccatca 420
tggtgttaac agctaaagtt tgctcgaagc cttcagtccg ttgcagagga gcgagctgga 480
cgccactgtg gggctctgag agtcctgaat tcttactggg ttggtgaaga ttccacatac 540
aaattttttg aggttatcct cattgatcca ttccataaag ctatcagaag aaatcctgac 600
a                                                                601
```

```
<210> 846
<211> 455
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (5)
```

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<400> 846
aattntaatt aaantcaccn tcactaangg ancaaagctg gngctccacc gcggtggcgg 60
ccgctctagc actagtggat cccccgggtc tgcaggaatt cggcacgagc gcagnaagcg 120
agatgacgag ggaacgtcat cgtttggaaa gcgtcgcaat aagacgcaca ngttgtgccg 180
ncgctgtggc tctaaggcct accaccttca gaagtcgacc tgtggcaaat gtggctaccc 240
tgccaagcgc aagagaaagt ataactggag tgccaaggct aaaagacgaa ataccaccgg 300
aactggtcga atgaggcacc taaaaattgt ataccgcaga ttcaggcatg gattccgtga 360
aggaacaaca cctaaaccca agagggcagc tgttgcagca tccagttcat cttaagaatg 420
tcaacggtta gtcatgcaat aaatgttctg gtttt 455

```
<210> 847
<211> 428
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<400> 847
attanccctc actaaagggg ncaaaagctg gggctccacc gcggtgacga ccgctctaga   60
actagtggat ccccccgggct gcaggaattc ggcacgaggt cgcggcgaca tggccaaacg  120
taccaagaaa gtcgggatcg tcggtaaata cgggacccgc tatggggcct ccctccggaa  180
aatggtgaag aaaattgaaa tcagccagca cgccaagtac acttgctctt tctgtggcaa  240
aaccaagatg aagagacgag ctgtggggat ctggcactgt ggttcctgca tgaagacagt  300
ggctggcggt gcctggacgt acaataccac ttccgctgtc acggtaaagt ccgccatcag  360
aagactgaag gagttgaaag accagtagac gctcctctac tctttgagac atcactggcc  420
tataataa                                                           428


<210> 848
<211> 348
<212> DNA
<213> Homo sapiens

<400> 848
tcgcggcgac atggccaaac gtaccaagaa agtcgggatc gtcggtaaat acgggacccg   60
ctatggggcc tccctccgga aaatggtgaa gaaaattgaa atcagccagc acgccaagta  120
cacttgctct ttctgtggca aaaccaagat gaagagacga gctgtgggga tctggcactg  180
tggttcctgc atgaagacag tggctggcgg tgcctggacg tacaatacca cttccgctgt  240
cacggtaaag tccgccatca gaagactgaa ggagttgaaa gaccagtaga cgctcctcta  300
ctctttgaga catcactggc ctataataaa tgggttaatt tatgtaac              348


<210> 849
<211> 365
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (217)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c


<400> 849
ggcagagcct aggtcgcggc gacatggcca aacgtaccaa gaaagtcggg atcgtcggta 60
aatacgggac ccgctatggg gcctccctcc ggaaaatggt gaagaaaatt gaaatcagcc 120
agcacgccaa gtacacttgc tctttctgtg gcaaaaccaa gatgaagaga cgagctgtgg 180
ggatctggca ctgtggttcc tgcatgaaga cagtgnntgg cggtgnctgg acgtacaata 240
ccacttccgc tgtcacggtt aaagtccgcc atcagaagan tgaaggagtt gaaagaccat 300
tagacgttcc tntantcttt gggacatcat tggnctataa ttaatgggtt aattttggt 360
naaaa                                                           365


<210> 850
<211> 276
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c


<400> 850
gacantaaga ngggaacaaa aaaacatgga acatgnacac agcaggntgg caggcacagc   60
atcataggaa ctagntggat cccccagggc tgcaggaatt cggcacgagg ccgaaaggaa  120
agaaggccaa gggaaagccc agctgtcgtg aagaagcagg aggctaagaa agtggtgaat  180
cccctgtttg aagcctaaga attttggcat tggacaggac atccagccca aaagagactc  240
acccgctttg tgaaatggct atatcaggtt gcagcg                            276


<210> 851
<211> 430
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (174)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (313)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<400> 851
gctgcgagaa gacgacagaa aaaaaaaaaa aaaaaaaaaa agcgcggccg ctgtcgagaa   60
gacgacagan gggggccccg gaagataagg ccgntcgctg acgccgtgtt tcctctttcg  120
gccgcgctgg tgaacaggac ccgtcgccat gggccgtgtg atccgtggac agangaaggg  180
cgccgggtct gtgttccgcg cgcacgtgaa gcaccgtaaa ggcgctgcgc gctgcgcgcc  240
gtggatttcg ctgagcggaa cggctacatc aagggcatcg tcaaggacat catccacgac  300
ccgggccgcg gcncgcccct cgccaaggtg gtcttccggg atccgtancg tttaagaagc  360
gngncggagc tgttcattgc cgccgagggc attcacacgg gccagtttgt gtattgccgc  420
aaaaaggccc                                                        430

<210> 852
<211> 420
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (411)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c


<400> 852
gcggacgcgt gtntcgaccc acgcgtccgg ncgagncgcg cggaggcgga ggcttgggtg 60
cgttcaagat tcagcttcac ncgnaagcca cnggcatggc ngaggaaggc attgctgctg 120
gaggtgtaat ggacgttaat actgctttac aagaggttct gaagactgcc ctcatncacg 180
atggcctagc acgaggaatt cgcgaagctg ccaaagcctt agacaagcgc caagcccatc 240
tttgtgngct tgcatccaac tgngatgagc ctatgtatgn caagntggng gaggcccttt 300
gngctgaaca ccaaatnaac ctaattaagg gttgatgaca acaagaaact aggagaatgg 360
gtaggccttt gnaaaaatga cagagagggg aaaccccgna aagnggttgg nttgcagntg 420


<210> 853
<211> 278
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c


<220>
<221> misc feature
```

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<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<400> 853
ctcgtgccga attcggcacg agccgccatc atgggtcgca tgcatgctcc cgggaagggc 60
ctgtcccagt cggctttacc ctatcgacgc agcgtcccca cttggttgaa gttgacatct 120
gacgannnga aggagcagat ttacaaactg gccaagaagg gccttactcc ttcacagatc 180
ggtgtaatcc tgagagattc acatggtgtt gcacaagtac gttttgtgac aggcaataaa 240
attttaagaa ttcttaagtc taagggactt gctcctga                        278

<210> 854
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<400> 854
gcggnacgnt ggaccggggt ccttccgtgc gcgttgatat gattggccgg cgaatcgtgg 60
ttctcttttc ctccttggct gtctgaagat agatcgccat cgtnaacgac accgtaacta 120
tccgcactag aaagttcatg accaaccgac tacttcagag gaaacaaatg gtcattgatg 180
tccttcaccc cgggaaggcg acagtgccta agacagaaat tcgggaaaaa ctagccaaaa 240
tgtacaagac cacaccggat gtcatctttg tatttggatt cagaactcat tttggtggtg 300
gcaagacaac tggctttggc atgatttatg attccctgga ttatgcaaag aaaaatgaac 360
ccaaacatag acttgcaaga catggcctgt atgagaagaa aaagacct              408

<210> 855
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
```

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<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<400> 855
gggtcgaccc acgcgtccgc tatgacacca agggtcgctt tgctgtacat cgtattacac 60
ctgaggaggc caagtacaag ttgtgcaaag tgagaaagat ctttgtgggc acaaaaggaa 120
tccctcatct ggtgactcat gatgcccgca ccatccgcta ccccgatccc ctcatcaagg 180
tgaatgatac cattcagatt gatttggaga ctggcaagat tactgatttc atcaagttcg 240
acactggtaa cctgtgtatg gtgactggag gtgctaacta gggaagantg gtgtgatcac 300
caacagagag aggcaccctg ggatcttttg gacgtgggtt cactngaaag atggccaatg 360
ggaacagctt tgccaantcg anttttccaa catttttgtt anttgggcaa ggggcaacaa 420
anca                                                               424

<210> 856
<211> 608
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (303)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (529)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (537)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (575)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (599)
<223> n equals a,t,g, or c

<400> 856
gggcatctttt cgggacaatt ggcacaagcg ccgcaaaacc gggggcaaga gaaagcccta 60
ccacaagaag cggaagtatg agttggggcg cccagctgcc aacaccaaga ttggcccccg 120
ccgcatccac acagtccgtg tgcggggagg taacaagaaa taccgtgccc tgaggttgga 180
cgtggggaat ttctcctggg gctcagagtg ttgtactcgt aaaacaagga tcatcgatgt 240
tgtctacaat gcatctaata acgagctggn tcgtaccaag accctggtga agaattgcat 300
cgngctcatc gacagcacac cgtaccgaca gtggtaccna gtcccactat gcgctgcccc 360
tggcccgcaa gaagggagcc aagctgactc ctgaggaaga agagattta aacaaaaaac 420
gatctaaaaa aattcagaag aaatatgatg aaagggaaaa agaatgccaa aatcaagcaa 480
gtcttctgga ggagcagttt cagcagggca agcttcttgc gtgcatcgnt ttaaggnccg 540
gacagtgtgg ccgancagat ggctatgtgc taaanggcaa agagtggagt ctatcttang 600
aaaacaag                                                         608

<210> 857
<211> 450
<212> DNA
<213> Homo sapiens

<220>
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```
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c


<400> 857
ggcacgagtg gggccgtctt cctcatcctt ccttttctc ggggctcccg tggagccacc 60
tggacatgag acccgccctc aatgccgaag cctctcggaa gcaatctttc gggacggaag 120
ttaagtagcc ccgagcggga ggctgtggcg gaagtggtcg cgttaccgck tgtttgtgcg 180
catgcgccac tctcgtctgg ccgccgcgct ttcaggaggt gcttttggtt ctctccggtc 240
ttgtccacgc taggggggtgc acgtackccc aactgtggtc gcgctctcac cccttctgct 300
gckctcgtgg cccccctcgcg atggcgggca tcctgtttga ggatattttc gatgtgaagg 360
atattgancc ggaaggcaag aagtttganc gagtgtctcg ackgcattgt gagagtgaay 420
ttycaagatg gvwbkaaacn aagakgtaaa                                  450


<210> 858
<211> 467
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c


<220>
<221> misc feature
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<222> (18)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c


<400> 858
gaaaanacnn gaaccannan gaagaatcga aagagctntg ncagncttnc tcaaaaagtc 60
cgggaagctg aaagtccccg aatgggtgga taccgtcaag ctggccaagc acaaagagct 120
tgctccctac gatgagaact ggttctacac gcgagctgct tccacagcgc ggcacctgta 180
cctccggggt ggcgctgggg ttggctccat gaccaagatc tatgggggac gtcagagaaa 240
cggcgtcatg cccagccact tcagccgtgg ctccaagagt gtggcccgcc gggtcctcca 300
agccctggag gggctgaaaa tggtggaaaa ggaccaagat ggcggtcgca aactgacacc 360
tcagggacaa agagatctgg acagaatcgc cggacaggtg gcagcttcca acaagaagca 420
ttagaacaaa ccatgctggg gtaataaatt ggcctnattc gtaaaaa              467


<210> 859
<211> 441
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (29)
```

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<400> 859
gggtcgaccc acgcgtccga aaaactgtnn gggagcttga caaaggcatg caggagagaa 60
caggagcagc cacagccagg agggagagcc ttccccaagc aaacaatcca gagcagctgt 120
gcaaacaacg gtgcataaat gaggcctcct ggaccatgaa gctagtcctg agctgcgtcc 180
cggagcccac ggtggtcatg gctgccagag cgctctgcat gctggggctg gtcctggcct 240
tgctgtcctc cagctctgcg agggagttac gtggggcctg tctgccaaac cagtgtgccg 300
tgccagccaa ggacagggtg gaattgcggc ttaccccat gttcacccc aaggattgca 360
aaaaccgggg ttgctgcntt tgaattccag gatccnggat ggncntggtg ttttcaagcc 420
cntgccagga agcagaagca c                                          441

<210> 860
<211> 423
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<400> 860
tgggctacct gcattcactg aacatcgttt atagagactt aaaaccagag aatattttgc 60
tacattcaca gggacacatt gtccttactg acttcggact ctgcaaggag aacattgaac 120
acaacagcac aacatccacc ttctgtggca cgccggagta tctcgcacct gaggtgcttc 180
ataagcagcc ttatgacagg actgtggact ggtggtgcct gggagctttc ttgtatgaga 240
tgctgtatgg cctgccgcct ttttatagcc gaaacacagc tgaaatgtac gacaacattc 300
tgaacaagcc tctccagctg aaaccaaata ttaccaattc cgcaagacac ctcctggaag 360
ggctcctgna gaaggacang acaaagcggc tcgggggcaa nggtgacttc atggagatta 420
aga                                                                423

<210> 861
<211> 429
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c
```

```
<400> 861
ggcacgagct cgtgcgcttt ggggctgctg ggactcgcgt cggttggcga ctcccggacg 60
taggtagttt gttgggccgg gttctgaggc cttgcttctc tttacttttc cactctaggc 120
cacgatgccg cagtaccaga cctgggagga gttcagccgc gctgccgaga agctttacct 180
cgctgaccct atgaaggcac gtgtggttct caaatatagg cattctgatg ggaacttgtg 240
tgttaaagta acagatgatt tagtttgttt ggtgtataaa acagaccaag ctcaagatgt 300
aaagaagatt gagaaattcc acagtcaact aatgcgactt attgtagncc aaggagcccn 360
caatttacca tgggaactga gtgaatggtt tnaatgagac ttntcgggta cttagggagt 420
aaaancttt                                                                     429
```

```
<210> 862
<211> 596
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c
```

```
<220>
```

```
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (544)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c


<220>
<221> misc feature
```

```
<222> (554)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (557)
<223> n equals a,t,g, or c


<400> 862
cgcggggcgn cncgctctag aactagtgga tcccctgggn ctgcaggaat tcggcanagg 60
naagtctccc agaagacagt gattatcaag gaagaggaag aagatactgc agagaagcca 120
gggaaggaag aggatgtcgt gactccaaaa ccagncaaga gaaagagaga ccaggcagag 180
gaggagccca acagaatacc aagccgcanc ctccgacgga ccaaacttaa ccaagaatca 240
acagccccca aagtgctctt cacaggagtg gtggatgctc gggganancg ggctgtgctg 300
gcatggggggg aaatctggct ggttcacggt caaagcttcc cacnggttca tggatcgcat 360
ccgccggaca ttcaattcct gtgtggccct ggggcggggn attccccatt ctgttccngg 420
gatgggtggc atcattcccg tcaagctgjt tttcttctta cccccgatga atatgtggtg 480
aacgaccngg cnccaanaga agaatttggc tttactttca agacgcattg agcagggtcc 540
gganngaagg tgcntanaag ggtatgaatt tatgtgaacc tggatccacc acacca    596


<210> 863
<211> 441
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c


<400> 863
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ggcagcttgg cagtgaccaa gaatgatggg cactaccgtg gagatcccaa ctggtttatg 60
aagtatgtgg cccccaggga gcttgggtct ccgcatgggg tgggaggtgg cttgttctaa 120
ggagcttgcg agaaggatta ggggaagcag atagccaaga aaggataaag tgagggtctg 180
ggatggggaa taatgggtcc ttaatactcc ttgacccctc cctttccacc ctcctgcgct 240
cagtctccct agcctatgag gcaagctaga ttagggaaaa aaagtgcaca ggaaggcaat 300
ggggattggg ctaagacgta acacagggat cagaaaacgg gtggaaaaca cacatttcta 360
ncaagtcttt aacccggttc ctccccttct taggaaagcg cagagcttaa gangggantt 420
cacagagagc cagnngcagg a                                         441
```

<210> 864
<211> 355
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<400> 864
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gacatcacca cggcggcagc catttaaacc cctcacccag ccagcgcccc atcctgtctg 60
tccgaaccca gacacaagtc ttcactcctt cctgcgagcc ctgaggaagc cttctttccc 120
cagacatggc caacaagggt ccttcctatg gcatgagccg cgaagtgcag tccaaaatcg 180
agaagaagta tgacgaggag ctgggaggag cggctggtgg agtgggtcca tagtggcagt 240
gtgggccctg atgtggggcc ggcccagacc gtggggcgct tggggctttc caggttntgg 300
cttgaagatt ggcgttgatt tntgnagcaa gctgggttgg aacagcntnt taccc     355
```

<210> 865
<211> 499
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c

<400> 865
aattcggcac gagactggac caaattagac agagagaatc agatatcacc aaggagagaa 60
ttcagaagat cctggcaact ggtgccaatg ttattctaac cactggtgga attgatgata 120
tgtgtctgaa gtattttgtg gaggctggtg ctatggcagt tagaagagtt ttaaaaaggg 180
accttaaacg cattgccaaa gcttctggag caactattct gtcaaccctg gccaatttgg 240
aaggtgaaga aacttttgaa gctgcaatgt tgggacaggc agaagaagtt gtacaggaga 300
gattttgtga tgatgagctg atcttaatcn aaatacctag ggncgacggt ttnatcggtt 360
tttttcgggg ggcaaaattt tcccggtntt ngggnggggg cctttnaaag gncctttttg 420
ggagngnttt tgggnaaatt gggncccegg gggttttaaa gnccntctnt cccaaaattn 480
ccccagggtn ggacctttt   499

<210> 866
<211> 353
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (284)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c


<400> 866
attgctggaa aactgcagga tggactcttg nacatcacta nntgnagttt tntggctccc 60
tggaacagcc tgagcttagc tcncgccggg gcttcaccaa gacctacact gttggctgta 120
aggaatgcac agtgtttccc tgtttatcca tcccctgtca aactgcagag tggcactcat 180
tgcttgtgga cggaccagct cctccaaggc tctgaaaagg gcttccagtt cccgtnaacc 240
ttgnctggnc tgacctcggg aagcnagggg ctgtgacacc tggnagtgcc ctgnggtncc 300
cagaatagcc tggaatcctg tcccgaagtt ggtaagttgg aagcctttna cat        353


<210> 867
<211> 566
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c
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<400> 867
ccgcgcgccc gtcccgtcgc cgccgccgcc gccgcagacc cctcggtctt gctatgtcga 60
gctcacccgt gaagcgtcag aggatggagt ccgcgctgga ccagctcaag cagttcacca 120
ccgtggtggc cgacacgggc gacttccacg ccatcgacga gtacaagccc caggatgcta 180
ccaccaaccc gtccctgatc ctggccgcag cacagatgcc cgcttaccag gagctggtgg 240
aggaggcgat tgcctatggc cggaagctgg gcgggtcaca agaggaccag attaaaaatg 300
ctattgntaa acttttgtg ttgtttggag cagaaatact aaagaagatt ccgggccgag 360
tatccacaga atagacgcaa ggctctcctt tgataaagat gcgatggtgg ccagagccag 420
gcggntcatc gagctctaca aggaagctgg gatcagcaag accgaattct tataaagctg 480
tcatcaacct ggggaaggna ttcaggctgg aaangagctc gaaggagcag cacggcatcc 540
actgcaacat gacttaatct tctcct 566

<210> 868
<211> 413
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<400> 868
ggcacgagcg gcgtcttagc ggctgcgcgg tggctgctcc gtcctttcgg tccaggcggc 60
ggcagggctg agccagcgac gccctccatt cactctccgc gcccgttctc cggctgtcct 120
cccgttccgc tgcccgccct gccaccatga cggaacaggc catctccttc gccaaagact 180
tcttggccgg agnatcgccg ccgccatctc caagacggcc gtggctccga tcgagcgggt 240
caagctgctg ctgcaggtcc agcacgccag caagcagatc gccgccgaca agcagtacaa 300
gggcatcgtg gactgcattg tccgcatccc aaggagcagg cgtgtgtcct tctggagggn 360
aactttgcaa cgtcatcgct acttcccant caagcctcaa ttcgcttcaa gat 413

<210> 869
<211> 600
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (329)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (547)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (548)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (588)
<223> n equals a,t,g, or c

<400> 869
gggactggag caaggtcgtc ctggcctatg agcctgtgtg ggccattggt actggcaaga 60
ctgcaacacc ccaacaggcc caggaagtac acgagaagct ccgaggatgg ctgaagtcca 120
acgtctctga tgcggtggct canagcaccc gtatcattta tggaggctct gtgactgggg 180
caacctgcaa ggagctggcc agccagcctg atgtggatgg cttccttgtg ggtggtgctt 240
ccctcaagcc cgaattcgtg gacatcatca atgccaaaca atgagcccca tccatcttcc 300
ctacccttcc tgccaagcca gggactaanc agcccanaag cccagtaact gccctttccc 360
tgcatatgct tctgatggtg tcatctgctc cttcctgngg cctcatccaa actgtatctt 420
cctttactgg ttatatcttc accctgtaat ggttgggacc aggccaatcc cttctccact 480
tactataatg gttggaacta aacgtcacca aggtggcttc tccttggctg agagatggaa 540
```

ggcgtgnngg gattngctcc tgggttccct aagccctagt ganggcanaa gagaaaccat 600

```
<210> 870
<211> 497
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (136)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (300)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c


<400> 870
aattcggcac gagggcaggg gcatccnnat cgagcgagtc gtctcctcgg agggtggccg 60
gccctctgtn gacctatcct tccagccctc gaagcccctg agcaagtcca gctcctctcc 120
cgagctgcag actctncagg acatcctcgg ggaccctggg gacaaggccg acgtgggncg 180
gntgagccct naggttaagg cccggtcaca gtcagggncc ctggacgggg aaagtnctgc 240
ctggtcggtc tcgggcgaag acagtnggga ncagcccgag ggtcccttga cttccaggtn 300
ccccccggttc gcccaagtgg nctccggccc cgtaggttac aacatttncg antnngnccc 360
atcacgcnag ggcaaganat tagagaggga cgctttaaga gcagagcàca gcttnattca 420
gagaagttcc aggataaccc anttcgtttc ttgagtttac atcccttttt tggnggataa 480
aaagcatctt tngccat                                                497


<210> 871
<211> 568
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (484)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (533)
<223> n equals a,t,g, or c

<400> 871
ggncganacc aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcggccgc 60
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagcgaaga tgaaattaac 120
cgccgcacag ctgctgagaa tgagtttgtg gtgctgaaga aggatgtgga tgctgcctac 180
atgagcaagg tggagctgga ggccaaggtg gatgccctga atgatgagat caacttcctc 240
aggaccctca atgagacgga gttgacagag ctgcagtccc agatctccga cacatctgtg 300
gtgctgtcca tggacaacag tcgctccctg gacctggacg gcatcatcgc tgaggtcaag 360
gcacagtatg aggagatggc caaatgcagc cgggctgagg ctgaagcctg gtaccagacc 420
aagtttgaga ccctncaggc ccaggctggg aagcatgggg acgacctccg gaatacccgg 480
aatnagattt cagagatgaa ccgggccatn cagaggctgc aggctgagat cgncaacatc 540
aagaaccagc gtgccaagtt ggaggccg 568

<210> 872
<211> 228
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (197)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c


<400> 872
aattcggcan agcttcaaac tctactccca ctaatagctt tttaatgact tctagcaagc 60
ctcgctaacc tngccttacc ccncnctatt aacctactgg gagaactctc tgtggctagt 120
aaccangttc tnctgatcaa atatcactct cctacttaca ggaactcaac atactagtgc 180
acagcccnat actcccnntg acatatttac cacaacacaa nggggct         228


<210> 873
<211> 433
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<400> 873
ctggcctcct gtcttagcct tcctgggctg tgtctggagc ctgggacctt gcttgtgggg 60
taaaagcaac agaacacttg cccttcccaa aatgaaggga gaggagatgg ggcttctctt 120
cctctcccct gagtgggaaa ggagctctgg gggctggtcc ttcagcacag aggaggggtc 180
actgaaagcg ttattgacca gctgctgtac cttctgcatc tcactccacg ctcactgcct 240
ttttctcttc cttgcattgg ctcctgtgcc tgtgccggct cctgcaaatg caaagatgca 300
aatgcacntc cttgcaanaa gagtgantgc aggcctttcc tgcgaatntg ggggatgggc 360
canttaanca ggaaccagac ttgcagcagg gcaggcatga cagtttccca aacctcttta 420
anangattca att 433

<210> 874
<211> 84
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<400> 874
agagagagag agagagagag agagagagag agagagagag agagagagcn cgngccgnat 60
tcggccccac atntntcatc acca                                       84


<210> 875
<211> 507
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c


<220>
<221> misc feature
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<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>
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<222> (454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (498)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<400> 875
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aattcggcan agcgggaatg ctaatagnga aaatggggag caggaggctg acaatgaggt 60
agacgagnaa gaggaagaag gtggggagga agaggaggag gaagaagaag gtgatggtga 120
ggaagaggat ggagatgaag atgaggaagc tgagtncagt tacgggccaa gcgggcagct 180
gaagatgatg aggatgacga tgtcgatacc aagaagcaga agaccgacga ggatgactta 240
gacagcaaaa aaggaaaatt taaacttaaa aaaaaaaagg ccnccgtgac ctttttaccc 300
tccatttccc ttttcagatt ttaaacgtgg tcacctttcn gttagaaggg ccccccnnc 360
cancnttggg aattcccntt tccnnnnttt nncagggagtt ttttcannnn cccnnnccnn 420
aaccttgggn tttttnaana ggggngggna aaannnccca attttttnngg nccnttttttt 480
tttttnaaan nttttttnnan ggntttt 507
```

<210> 876
<211> 190
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<400> 876
```
ccaccttact accagacaac cttnggcaaa cctttntccc aaataaagta taggcgatag 60
aaattgaaac ctggcgcaat agatatagta ccgcaaggaa agatgaaaaa ttataaccaa 120
gcataatata gcaaggacta accctatac cttctgcata atgaattaac tagaaataac 180
ttttgcaagg 190
```

<210> 877
<211> 315
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<400> 877
```
cagcagccaa aggcttgtcc ctgactttat atggctgctc ctggcgagcg actgagtcgt 60
ccgtgaggaa aaagaggcga ggcttttccg agatcgtctc agcgatggcg cttcggtcgc 120
ggttttgggg gttgttctcg gtttgcagga accctggtaa ttagtcttgc ccccccttctc 180
ccagctcact cgcctgggct tgcacagtac attggaacgt gcgggttcta ttttgtattc 240
gacgtgccgg atcgaaatag agctcgcggn actgcgaaga ccacagtagg aagttaagga 300
cggggtcagt gctga 315
```

<210> 878
<211> 295
```

```
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
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```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (197)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<400> 878
aatncggcac gagagacagt ttgctaattt aaaaatgtag catnccattn gtatntatnn 60
cnctcccnng ccaaaaagat tnnctaatac tgcttgtacc agccagagaa agatccaaaa 120
cactacncag cnctctngca cngaggaaat ntttcccccn acatngactc cnggcctaca 180
tcagccaaac nnaaccnngg tggggtttgg atttgatagc caatnagttc tgtgctggtt 240
```

```
gcaaagaatt gatatnttag atggnttnta atacntcagc agatttgtct ttncg        295
```

<210> 879
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<400> 879
```
ctgaggttta cagttagaaa atgttctcaa aggtttatca gttatgtatt gatgattggt 60
aatctagacc ctctggaggc tgtagaatgt gaaaagatac agctgagctg acaagttta 120
gggcactatc ttctggaatg aaatcggcca agaaaatggt tcaagggcat gggggttaga 180
gaatgtttct tttacctaaa aatgttaagc caactatgja agattggggt cgtgggggca 240
tgaaatacaa aattatgata atttatacag aactaggttt ctttatgttc tgcaagaagg 300
tttttattag ctaatttggg gagggggggcc atgctgcagt attttttttc ctggggaaca 360
tgccatttct gatggggaag ttattttgtt tacaagagtt ggtttaccac acaaccctga 420
atgaatgtgn caatggccta a                                            441
```

<210> 880
<211> 112
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<400> 880
ggcanagcgg cattgggagg ggcgctctga gattaaagag ttttacctct gaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanaaa aaaannaana na         112

<210> 881
<211> 162
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (136)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
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```
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (154)
<223> n equals a,t,g, or c

<400> 881
ggcagaccna acatagattt aantaaatac attancgggg gtaaaaatga aaatcntaac 60
ccaagacatg aacatttta gctgtaactt aactattaag gcctttccc acacgcntta 120
atagtcccat tttctntttg gncattngtg gctntgcccc at                  162

<210> 882
<211> 117
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

```
<222> (117)
<223> n equals a,t,g, or c

<400> 882
ggcanagggn aaaaccccgc ctctactaaa aatacaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naaaaaaaaa aaanaaaana aanaaan     117

<210> 883
<211> 452
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c
```

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<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c


<400> 883
gnccaatnta tcaatcacgc actgcactca tcagggcaaa cctgggtacg cctgncaggt 60
caccggtncc ggnaattccc gggtcgaccc acgcgtccgc ccacgcgtcc gcccacgcgt 120
ccgcccacgc gtccgctcgt gccatgatct gtatttaatg gtttttattt ctcgggtgca 180
tttgagagaa gccacgctgt cctctcgagc ccagatggaa agacgttttt gtgctgtggg 240
cagcancctc ccccgcagcg gggttaggga agaaaactat cctgcgggtt ttaatttatt 300
tcatccagtt tgttctccgg gtgtggcctc agccctcaga acaatccgat tcacgtaggg 360
aaatgtttaa gganttctgc agctatgngc aatgtggcat gggggggcgg gcagtcctgc 420
ccatgtgttc cctcatctgn tcagccancg nc                               452


<210> 884
<211> 340
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (90)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (96)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c


<400> 884
aattcggcac aggtgaatcg cagcttctga gaccagggtt gctccgtccg tgctccgcct 60
cgccatgact tcctacagct atcgccagtn gtcggncacg tcgtccttcg gaggcctggg 120
cggcggctcc gtggcgtttt gggccggggg tcgcctttcg cgcgcccagc attcacgggg 180
gctccggcgg ccgcggcgta tccgtntcct ccgcccgctt tgtgtcctcg tcctcctcgg 240
gggcctacgg nggtggntaa ggnggggggtc ctgaaccgcn tncnaacggg gtgctgggcg 300
ggcaacgagg aagcttaaac catgcagaac ctnaacgacc                       340


<210> 885
<211> 52
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (17)
```

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<400> 885
gncctatagt gagtcgnatt acaattcact ggccgtcgtt ttacaaccnc gt   52

<210> 886
<211> 303
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<400> 886

```
gacctgcaga gccctgctgc gcagangtgc tgttttccag ccctccccaa atgcattctt 60
caggtgcgtg tctgaagatc ttggttttgc tgtgcttgan acacagctga tgctttannn 120
gctcaggttt actggcttta taacagtngg cataacgcct aaagcatccc ctctgcacgt 180
gactgagcat gtncttaacc agaggagctg aacggagtgc agaaaatagt agttttaggg 240
cttagtgagc agaggaagca gcttctctgg tgctttattt aatagaacat ttaagagtgc 300
tca                                                                303
```

```
<210> 887
<211> 649
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (201)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (509)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (513)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (575)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (582)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (586)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (621)
<223> n equals a,t,g, or c


<400> 887
gggacacggc ggtcgttttc ccgaaaacat gggccctccc atgggccatt tgctccctgg 60
aggccctcgc gtcttgctga gcccgggggag ttaggatgac gcgagcggtg agggagcccg 120
gaacgattcc ttcgcggaac aattgaggcg aagcctttgg gagtactttg tgggacggac 180
cctggcgggc cctgccanac ncacanggat ggcggcggaa gcggccgatt tggggctggg 240
ggccgccgtc cccgtggaac tnaagcggga gcgacgcatg gtgtgcgtgg agtacccggg 300
aattggtgcg tgatgtggct aaaatgctgc ccactctggg cggggaaaga aaggggtctc 360
cccggatctt acccagaanc cccccnagaa agcttgggan cttgtttctt cccggggccc 420
aaggaaccca ttacttgncc ccccccgntg tttgggccca aacccgcttt ccanttacca 480
ancaanccct gcttgcttcc cccttttccnn ggnaaaaaaa aaaacaaaag gggggggggaa 540
aaaaaagggg ttntcttggg ggcccctttta aaggnccccc tncccnaagg ttcccctttt 600
tgaaaattgg gaaaaatcct ntgggggttc cttcttcccc cccctttt        649
```

```
<210> 888
<211> 72
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (68)
```

<223> n equals a,t,g, or c

<400> 888
gccctatagt gagtcgtatt acaattcact ggccgtcgtt ttacaacgtc gtnatgtggn 60
aaaccnnnta at   72

<210> 889
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (224)
<223> n equals a,t,g, or c


<400> 889
ggcanagttt tttttttaa anaaggngaa aacacatgna atttnatttt tntttaacct 60
taagnttgcc aacttcttnc cctgaacagc atttntcttg ttttgatacc cacctacact 120
tatattagaa angnnctgca aactatttag ngactccnct ttnaattnat ggncgtatgc 180
ctnaagaatg ttttgaaata taaagcctat cccgtttgcc cagnttgtaa atttcagg   238


<210> 890
<211> 225
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c


<400> 890
acccacgcag tccgcgcgtc ctccatcacg tgtctgttct ctggggaggc agtaaggggc 60
cgtggagctg gcctcggcct cggcatcggg agaggctgga cttcctgtct ctctgtgctg 120
aanggctgcg atggcgcccg ctctcactga cgcagcagct gaagcacacc atatccggtt 180
caaantggct cccccatcct ctancttgtc ccctggncag tgnng              225
```

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<210> 891
<211> 130
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (90)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (96)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<400> 891
ggcacgagcg gcacgagggg gggcccggta cccaattcgc cctatagtga gtcgtattac   60
aattcactgg ccgtcgtttt acaactncgn gatganggaa atntaaaata cttccgagct  120
cgtatgttnt                                                          130

<210> 892
<211> 421
<212> DNA
<213> Homo sapiens

<400> 892
gcactgaaga acattactga gggggctaac cttggggact ccaatttgcc aatgatgagg   60
gaacatttga aagaactgca aattgtcctt gccagctctt gggatccttg gatacctggg  120
gccatttaag aagctagggg aattaggcca caacacccc tgggacatcc gaaagctaca  180
ccacagatgc cagtggttca tgccttcttc ccgcaacttt aggaaaattt atttatttat  240
tgtttattag ttatgggggg agaggggaga tttaaaggac cagggacatg ggaaccaagc  300
catagggatc agaggggctt gtccttgaac actactgggg tatattcagg ctcatccacg  360
cagctgctgg gttcttgccc taacggccct cccctgcaac atccgtcttg gaggagaggc  420
t                                                                   421

<210> 893
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<211> 307
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (305)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<400> 893
ggaatgacaa acccttttgaa tgaaattgtg gcacaaaatc tgttcaggtt ggtgtaccgt 60
gtaaagtggg gatggggtaa aagtggttaa cgtcactgtt ggatcaacaa ataaaggtta 120
cagttttgta agagaagtga tttgaataca tttttctgga actattcata atatgaagtt 180
ttcctagaac cactggagtt tctagtttaa tagtttgcta tgcaatgnac cacctaaaac 240
aatactttat attgttattt ttcngaaaga ctcaaaacac ctgtaattnt aaaccttaat 300
atganan 307

<210> 894
<211> 453
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<400> 894
gcggnacgcg tgggtggnac ccacgcgtcc gtcgacccac gcgtccgcga cctgggcaat 60
tatcccaaca aattanactc ccctctgtca tgtcaatatt ggaattgtag ctcacaggtg 120
tttgcttana tcagtcatcc agagaggaag aatgatagag aaaacttgtg ctctgacact 180
actgattctt acatagtgga acaatatctt tcttgataat gaattgtagt tattataaat 240
cggtgatcac gtgaccctaa aggcacccaa ataaatcttt agtaaaataa ttctgatgac 300
acaatgaatg aattattttt aaggcatttt cttggactag caatgtattc ttagagtggc 360
gactgaatgt gcatacctca atgatccatg ttttactcat tcnnnggtcc ccaggccacc 420
cagggcaacc aggccctcct ggacctcctg ggn                              453

<210> 895
<211> 596
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (525)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (528)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (537)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c


<400> 895
gcccacgcgt ncgcccacgc gtccgagaaa ttgaaacctg gcgcaataga tatagtaccg 60
caagggaaag atgaaaaatt atagccaagc ataatatagc aaggactaac ccctatacct 120
tctgcataat gaattaacta gaaataactt tgcaaggaga gccaaagcta agaccccga 180
aaccagacga gctacctaag aacagctaaa agagcacacc cgtctatgta gcaaaatagt 240
gggaagattt ataggtagag gcgacaaacc taccgagcct ggngatagct ggtgccaaga 300
```

```
tagaatctta gntcaacttt aaatttgccc acagaaccct ctaaatcccc ttggaaattt 360
aactggtagt ccaaagagga acagctcttt ggacactagg aaaaaacctt ggagagagag 420
taaaaaattt aacacccata gtaggcctaa aagcagncac caattaagaa agcgntcaag 480
ctcaacaccc actacctaaa aaatcccaaa catataactg aactnctnac acccaantgg 540
accaatctat cancctatag aagagctaan ggtaggataa ggaacatgaa aacatt      596
```

<210> 896
<211> 351
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<400> 896

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gaaagaagga aactagctcg gaccgtgcag gtttgtaggt ctgttggcct gtaggtttcg 60
gcacaagttt cagcgagaga aggagaaaac tgccttggtt ggaaccttgc agtgcaggga 120
aaggggtgtg gcggcctttg ctggggaaat ggcggacgac aagtggggcg gaggaggcct 180
gcntccggaa agtcagtaga attcatcaca agagagctac aagagcctgg aagaagctga 240
agacttgcta ccctccatcc ttacttcacc ctgggacctg aggagacctc ttcaatcaga 300
aatggaaaca gagagattct cctgggaaac ccctgcccca taaacggccc t            351
```

<210> 897
<211> 72
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (68)
<223> n equals a,t,g, or c


<400> 897
ggcanaggna gagagagaga gagaactagt ctcgtgtttt tttttttttt ttttgggnna 60
aaaatttnat tt                                                     72


<210> 898
<211> 383
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (366)
<223> n equals a,t,g, or c

<400> 898
ggcacgaggg ggaaatcgcg gtcttagcat ccggcgcgcg gcggttggaa ttgctgcgcc 60
cacgaggcaa ccgctccgga acgccangtg ggggcgaggc gtctcggagt ctcagagaca 120
ccaaggcccc tgcgacaagg tggctgcagc taggccgggg gcgtcaggac gacggnagcg 180
ggttcgggtc ggtgacacgc agacctgagg gagctgggcc cgcntnttcc gcccgcgccc 240
cagcccttgc agatcgagat ttgcgtccta nnatggggaa aaaagcagag gccagggcgc 300
cgattttatt tggagagaag caagcttctt tgncntcttt tgggattagg aaatttcana 360
cntggnaaaa atggtgtgtg gtt                                        383

<210> 899
<211> 172
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
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```
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<400> 899
ggcacgagct tgttcgtctc actggtgtga ctccagcatc ccctttgctc gaaatggacc 60
ccaactgctc ttgcgccact ggtggctcct gcacgtncgc cggctcctgc aattncaaag 120
agtgcaaatg nacctcctgc aanaagagct gctgttcctg ntgccccgtg ga          172


<210> 900
<211> 101
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<400> 900
gcagcagcac aggcgcgggt cccgggaang gccggctctn ctcgcgccta gatntggaat 60
ctccttcacg aaaccgactc ggctgtggnc accgcgcgnc g                      101


<210> 901
<211> 358
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (24)
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```
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c


<400> 901
ggcacgagga cagtctgcct gggncacagc cctctnaccc tggtactgca tgcacgcaat 60
gctagctgcc cctttcccgt cctgggcacc ccgagtntcc cccgaccccg ggtcccaggt 120
atgctcccac ctccacctgc cccactcacc acctctgcct agttccagac acctccacgc 180
ccacctggtc ctctcccatc gcccacaaaa ggggggcac gagggaacga gcttagctga 240
gctgggagga gcagggtgag ggtgggcgac ccaggattcc ccctcccttc ccaattaaag 300
atgagggtat taaattgtct tggttttttaa tttantatta nttttttnnt ttttccan   358


<210> 902
<211> 423
<212> DNA
<213> Homo sapiens


<220>
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<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<400> 902
atttcctggc tgacctgcta gtccccacaa aagccaggtt ccctgcattt gaactctgaa 60
aggatagcat gccacctgca actcactgca tgacccttc tgtatattca aacccaagct 120
aagtgcttcc gttgctttcc aaggaaacaa agagtcaaac tgtggacttg attttgttag 180
ctttttcag aatttatctt tcattcagtt cccttccatt atcatttact tttacttaga 240
agtatccaag gaagtctttt aactttaatt tccatttctt cctaaaggga gagtgagtga 300
tatgtacagt gttttggaga tgtatacata tattccagaa ctnggggaa tcttattaag 360
ttatggatat accaccgtaa cggtcnaaaa ngtttaaaga acccatncgg taaggtaatn 420
ggg   423

<210> 903
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (177)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (305)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c


<400> 903
attcggcacg agagtattta gttggggcat gaataagtaa agtatgtaaa gaggcgtgat 60
agtnagggct gagtgggtat caccttctcg gtgagaaaat caatttcctg agagtnttgt 120
aaactaggac ttagagtact aatcatggtg tttttcagaa attatatata tattttnaag 180
tcagggtctc accgtgtcgc ccaggctgga ggcagaggtt gtggctcgtg ccgaattcga 240
tatcaagctt atcgataccg tcgacctcga ggngggggcc cggtacccaa ttcgccctat 300
tagtnagtng gtattacaat tcactgggcc gtcgttttta aaacgggggt nactggggaa 360
ac                                                                 362


<210> 904
<211> 309
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (162)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (170)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<400> 904
ggctgaggag agggcggaag tgtccgcacg tcgggcctcc gaggcttctc tttctcccct 60
ggcggtccgg ctctcgatgg tggcgtgacg ggggcggggg tggcggngcg ttctcctcgg 120
ttgggaagga accagcccgc gaacccaggn cgggaagggg gntcggcctn nggggggaang 180
gactgacatg tctctcgaag accccttttt tgtagtccga ggcgaggtgc agaaagcggt 240
gaacacgggn ccgcgggctg taccagngct ggtgcganct cctgcaagaa ancncggcgt 300
tcggaacgc                                                        309

<210> 905
<211> 388
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```
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (304)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<400> 905
ggcagagggc caaagtaacc ttntaatgtc cggctggttt tggacagcaa caccggctgg 60
nnctgnaccc aggagcagct gcaccacttg naaagtcgcc tcatctccta agcactcctt 120
tcccctgnng tccccttcga accctgaagc cctctggtgc gcgctctgcc cgatgcacag 180
ccacctaagc nagcccccag gttagaaacg tgggttaaag ctcttgcctg ccccgttaaa 240
gcttcactcc nacccttta agcgtcctgc cccttcacct tgaacccggg ttcccccatt 300
ccanttcctg ggctttgnca tgatttggtt ggttcaatgg ttccttcttt cctgaggggg 360
cttnagggtt ttggnggggg ntaaggtt   388

<210> 906
<211> 349
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (170)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (219)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c


<400> 906
ggcacgaggt ttttannttg tactcttttg gatggngttg catttataan tcttaacccg 60
agggtgtgtt tcaacttatg tacgtactgt ntcatgcagg tttatagcac ggtagagtag 120
aaggcggctt ctgattttaa gggtattttt agaattcatt cctgaatgan gggttcagac 180
acccagtctc ctcggaacag gggtgagggg tcgactganc tttgttgaga agcctccagt 240
taaggcttcg ggcgggtctc catgttgtat tgtgtgttta ctgagcttcc cactggttag 300
aagatgacac atttgnccat cgtcctgtgt atctganatt cccagggga      349


<210> 907
<211> 469
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (38)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
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<222> (53)
<223> n equals a,t,g, or c

<220>
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<222> (102)
<223> n equals a,t,g, or c

<220>
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<222> (138)
<223> n equals a,t,g, or c

<220>
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<222> (141)
<223> n equals a,t,g, or c

<220>
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<222> (161)
<223> n equals a,t,g, or c

<220>
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<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (201)
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<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (306)
<223> n equals a,t,g, or c

<220>
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<222> (322)
<223> n equals a,t,g, or c

<220>
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<222> (331)
<223> n equals a,t,g, or c

<220>
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<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c
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<220>
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<222> (395)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (.460)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c


<400> 907
gacaatacac nttactacca gacaacctta gccaaacnat ntacccaaat aangtatagg 60
cgatagaaat tgaaacctgg cgcaatagat atagtaccgc angggaaaga tgaaaaatta 120
taaccaagca taatatanca nggactaacc cctatacctt ntgcataatg aattaactag 180
anataactnt gcaaggagag ncnaagctaa gacccncgaa accagacgag ctacctaaga 240
acagntaaaa gagcacaccc gtatatgtag caaaatagng ggaagattta tnggtagagg 300
cnacanacct accgagcctg gngatatgct ngntgtccaa gataagaatc ntaggttaac 360
ttttaaattt ggccacagaa cccttttaaa tcccnttgga aatttaactg gtaagcccaa 420
agaggaacaa gttttttgga cactngggaa aaaaccttgn anaanagag          469


<210> 908
<211> 95
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c


<220>
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<221> misc feature
<222> (80)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c


<400> 908
ggcacgagcc cacacccacc caagaacagg gtttgttaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaannn nggggggggc ccngt                          95


<210> 909
<211> 373
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (334)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<400> 909
ggtggccagc tgttactggg tttaaaacag gactgtttct tgttaagatg ggggaactgc 60
tttcctgcca aaagtgccan agatcaactt ggaaaacaaa atcctcacag agggagagta 120
aagaacactt gattagtctc attagcacct gtagctactt ttctaaagtt aattcctgaa 180
ggcccttgaa agcttcacta tgagattgaa tttgcaccat tnctncaatg gtctttgcaa 240
tgagggatgg gggatagtgt gatggtcctt nccaaccatc cctggaagaa gaagccaaaa 300
aactttttcc cgaaaggagt tctttcaccn aagnagntcc catctgggca ggaaattacc 360
tccgggnaac ana   373

<210> 910
<211> 721
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (624)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (627)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (691)
<223> n equals a,t,g, or c

<400> 910

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gtatagatca tacttatgaa ggtgataact gacacgtgtt ccctgaattt taatttgata 60
ggcaatacat ctacccactc cattattttt taaaacttca tttaatagtt taaacaagat 120
tggttttgtt ttcaattttt attcactctt catagaatca caattacctt tatatatcat 180
atgttattgg aagagattcc tcagtaatct ccaatctctc atagtgcctc acagggttgg 240
tcaatggctt ttggaactgg aaggacctta gaacttatct gttatgctcc tgatagccaa 300
tagcagatag aagcttgcaa tcaagagggt aggacatgtg ttcttcaatg gatatcaaag 360
gaagaggttg caaaccaaag ccatttggca agccctgtag cctgggccat ttaagacagg 420
ggcggtctca gccaaattgc acccatttaa ctatcccaaa gagccacaag tgcctacaac 480
ccaggcccta agttgatgaa gaaaaagtca aggaangagg tgatcaattg gaaatattcc 540
catcaaatgg gtaaacttat ttagaaaatg ggcatattag aaaaagcctt ccaagatgat 600
tttggataat aaaagtggat ttgnggnaat gggaataact ctggttaagc cctacattat 660
cccttacatt tggtttaggg acctactgac ntaaattaag gaaacatggt aaagtacctt 720
g                                                                 721
```

<210> 911
<211> 564
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (366)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>

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<221> misc feature
<222> (411)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (493)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (494)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (505)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (525)
<223> n equals a,t,g, or c


<400> 911
ggcgacgcct agaagctccc cttcaaagtt ggccccacgc gctgaatgtg gaaagttgac 60
tgggacccag tagtttccca tcccaaacct gctttccgag aagggcttca aacccaaaat 120
gtgaatcccg cctcccctct cagccagaac tgtggactcg tcccggggag gggcggtggg 180
tggggcgggg ctggcgggaa atttcggttt tggcgcgctc cctgcggcga cgctccatcg 240
tgcgctctcc tcttcccccg gtggtctcct cgctcgcctt ctggctctgc atgccctgct 300
ctgaagagac acccgccatt tcacccagta agcgggcncg gntgcggaag tgggcggcat 360
gcagnnccgn tttgcncggt tttcgagcaa gccaaggccc caacggggtt ngggcgcgcg 420
ggggttaaga ctgtaaaatg gctangatta aacataccac tatggagaaa ttttntgaaa 480
nggaattcaa aanngtcctt ttggngtaat gaaaatggtc aagtnaggtt ggtgaaaaat 540
ttttgattag actgggtaaa atga                                     564
```

```
<210> 912
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<400> 912
tcgacccacg cgtccgcggt gctcggagtg tggtacttct cctagttgca gtcaggcttc 60
atacgctatt gtcctgcccg ttagagcagc cagcgggtac agaatggatt ttggaagagg 120
gagtcaccac tggacctcca aggaagccac gtgcagacat ctacaacctt cgatctcctg 180
acgagtttat tgttggccaa aaccaggctt tgattgaacc aggatgaatg cgggtgttgg 240
aagtagaata tatatataca tataaaattg gttgggagcc acgtgtacca gtgtgtgttg 300
atcttggctt gattcagtct gccttgtaac agaactggcg atggaatatg agaggagccn 360
ctggaaagaa aaggacagan ccnntgcttt catgnaagtg agatctgg            408

<210> 913
<211> 355
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

```
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<400> 913
ggcacagggg tgagtgtttc tcctgcgttg ctccgagggc ccaatcctcc tgccatcgcc 60
gccatcctgg cttcggggggc gccggcctcc aggcccggg aaggagaact cctagggcta 120
ctaaatcctc gctggaggng ntggcttctt atgcgggagg acgtggcgga gggcctgact 180
ttgggagccg ggggttgact ggattggtga ggcccgtgtg gctacttctg tggaagcagt 240
gctgtnagtt actggaagat aaaagggaaa gcaagccctt ggtgggggaa atatggctgc 300
gatgatggca ttcttaggac accttggnta ntantgaaac aantanctct gagca       355

<210> 914
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
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```
<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c


<400> 914
cgaggnctgc tggcgccggg ggccccgtgc gcggcctgct cgtcggcctc gtgcgccaac 60
aacgccttcg ccttcggtcc ggagctcagc agcctcatca cgccgctcgc catccagacc 120
cacaactttg ccgccgtggc cgncgccgcc tactaccgca gtcagcagca gcagcagcag 180
cagggcctgg cgccccccgc gcagcgccgg cgccgcccag cgcgaccctc cccgccgggg 240
ccgccgcacc tccctcgccg cccttcagct tccanctgcc gcgccggcct tgtccgantc 300
gcccgtgttt ngangcggcc cccaagcncc ccgggattcg ctgttcggaa cgggaaagta 360
acttaaancg ggttcct                                                377


<210> 915
<211> 509
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
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<222> (133)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, cr c


<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (431)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (493)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c


<400> 915
ggcagagtgg gaagaaagta agtgggcagt gcctgtttgt tgaactggta ccaacctctg 60
cctctccctt ccaaattctt ggtgccacca ttgagaaact ccaggattgt cctgcagatc 120
gacaacgccc gtntggctgc agatgaactt ccgaaccaag taagtntctc tntcctgggg 180
gctgcagaag ccaggactgg ggtaggggtt ggggggttta ggaatntgcc ctcacctagc 240
ctagatggcc tgaagctaaa ccccccctatg gactcctgaa ctctggggag gtagggaagt 300
cttcagagat gctgaggaag ctctgcctgg ctgcaactat tttccttgaa aggtttgaga 360
cggaacaggt ttgcgcatga gcgtggtagg ccgacatcaa cggctgngca ggtgctggat 420
```

```
gagctgacct ngccagaccg acctggagat gcaatcgaag gcctaaggag agttggctac 480
tnaagaggac ctnagagtgg nttaagttg                                     509
```

```
<210> 916
<211> 135
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c
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```
<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c
```

```
<400> 916
ntaccagcaa attacttcat catcnagatt atccattcag ttgatcctaa ttagcaanga 60
tnacaacgta acacaangct tacttatagc acccaacaaa antgtctctg tgganccact 120
tcccagtgaa ctaca                                                   135
```

```
<210> 917
<211> 230
<212> DNA
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```
<213> Homo sapiens

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c


<400> 917
tcgacccacg cgtccggctt ctccgctcct tctaggatct ccgcctggtt cggnccgcct 60
gcctccantc ctgcctctan catgtccatc anggngaccc agaagtccta caaggngtcc 120
anctctgggc cccggggctt cagcagccgn tcctacacga gtgggnccgg ttcccgcatc 180
agctcctcga gnttctcccg agtgggnagc agcaactttc gcggtggnct           230


<210> 918
<211> 529
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<400> 918
ggcagagctt tttcctcctc ggctgcggcc gttgtcctcg gagcgcggtc cctgtattgg 60
tctcctgctc ctagaggttg agaacaaaaa catgcacctg gagtttcccc ggagccctct 120
gcgtggttga gcttcggtgg aatttcgggg ctcttggctg ccagcgcgct tgcctggtag 180
caacagaaac cagtcctgct cgcctccgtg gacatttcat taccatccag aagtgtctcc 240
```

```
cactgaaggc atccgtggtt gttttaagc cacaaaaaag ccacanccaa gatcacntga 300
caaccaccct gacaagtgtt ccatgatgtt gggnccngag ggaggtgaag gtttttgtgg 360
tcaagttcct tggnctgccc tgtncccgtt tttttgagga cgtgcanaan ttcccttttg 420
actgaangnt tcaagttggg gccccaaggt tccatttaat nacattgggg gggcaagcaa 480
nattggtgng gtttttttga attggttcaa aggtgtttna aaatgnccc             529
```

<210> 919
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (88)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c


<400> 919
nagccctgcg gatggtcctc catggntccc tagtgccctg gagaggaggt gtntagtgaa 60
agagtagtcc tgggaagatg ggcctctntg aagnagccac ggggacagca tcntgcagat 120
ggtcctggcc cttntcccac cgacctgtct acaagnactg tgcctcgtgg accctccnnt 180
ctggcacagg aagctggacc ctaaagtccc ttgtnccacc ggccaggaan tggtagcc    238


<210> 920
<211> 442
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<400> 920
ggcacgagag attaagttag gacaagaagc aagagttcaa ggatagaagg cctactgaag 60
ctcgagtgat ttgagaaaac tttacaaagg tggaaaatct acgtgggcct ccgaaagtca 120
gatttgacaa gatcaaagct gcaggaaaat ggacagtgag gttcagagag atggaaggat 180
cttggatttg attgatgatg cttggcgaga agacaagctg ccttatgagg atgtcgcaat 240
accactgaat gagcttcctg ancctganca agacaatggt ggcaccacag atctgtcaaa 300
gancaagaaa tgaagtggac agacttagcc ttacagtacc tccatgagaa tgttcccccc 360
attggaaact gacgtttggc tnctntcttg tggatggatt ttctcaaagt acacagataa 420
agcatggttg tttcagtcgt cc                                           442

<210> 921
<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<400> 921
caatggcggg cgcccctccc ccagcctcgt tgccgccttg cagtttgatc tcagactgct 60
gtgttagcaa tcagcgagac tccgtgggca taggaacctc cgagccaggt gcgggatgta 120
atctcgtggt gcaccgtttt ttaagccagt ccgaaaagcg caatattcgg gtgggagtga 180
cccaattttc caggtgcgtc cgtcacccct ttctttgact cggaaaggga actccctgac 240
cccttgcgct tcccaagtga ggcaatgctc tccctgcttc ggctcgcaca cggtgcgcgc 300
anccactgac ctgtgcccac tgtctggcac tccctagttg agatgaaccg gtacctcaga 360
tggaaatgca gaaatcancc gtcttctgcg tcactcatgc tggagctgta gaccggagct 420
gttcctaatn cggcatttgn tcct                                         444

<210> 922
```

```
<211> 394
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<400> 922
gaaccgggta gcttggccag gttgtgagga accgcagcgc gccgcaggac cgggccgctg 60
agcctgcagc cgccccgcgc cgtgacctgc gaccctagac cccgactccc tttggctcag 120
cccgcgcgcc ccaggcccgg cccgggcggc gcgacgggag gatgagcggc gggcggcgga 180
aggaggagcc gcctcagccg cagctggcca acggggccct caaagtctcc gtctggagta 240
aggtgctgcg gacgacgcgg cctggganga taagataatt ttaagngtga ctantggttc 300
cgacaatatt ctgtgtcntg gtgtcaattt gggatttttcc ataacaggtt cttggaatac 360
```

```
agatttgctn anantcagat ctgtactnaa ttca                                    394
```

<210> 923
<211> 352
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<400> 923
```
gcaaaacccc actctgcatc aactgaacgc aaatcagcca ctttaattaa gctaagccct 60
tactagacca atgggactta aacccacaaa cacttagtta acagctaagc accctaatca 120
actggcttca atctacttct cccgccgccg ggaaaaaagg cgggagaagc cccggcaggt 180
ttgaagctgc ttcttcgaat ttgcaattca atatgaaaat cacctcggag ctggtaaaaa 240
gaggcctaac ccctgtcttt agatttacag tccaatgctt cactcagcca ttttacctca 300
cccccaaaaa aaaaaaaaaa aaaaaaaacc ncgggggggg ncccggnncc na          352
```

<210> 924
<211> 436
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<220>

```
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<400> 924
ccactccacc ttactaccag acaaccttag ccaaaccatt tacccaaata aagtataggc 60
gatagaaatt gaaacctggc gcaatagata tagtaccgca agggaaagat gaaaaattat 120
aaccaagcat aatatagcaa ggactaaccc ctataccttc tgcataatga attaactaga 180
aataactttg caaggagagc caaagctaag accccgaaa ccagacgagc tacctaagaa 240
cagctaaaag agcacacccg tctatgtagc aaaatagtgg gaagatttat aggtagaggc 300
gacaaaccta ccgagcctgg tgatagctgg ttgtccaaga tagaatctta gttcaacttt 360
aaatttgncc acagaaccct ctaaatcccc ttgtaaattt aactggttag tccaaagagg 420
gacagctctt tgngnn                                                 436

<210> 925
<211> 439
<212> DNA
<213> Homo sapiens

<400> 925
cccaaaccca ctccacctta ctaccagaca accttagcca aaccatttac ccaaataaag 60
tataggcgat agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa 120
aaattataac caagcataat atagcaagga ctaaccccta taccttctgc ataatgaatt 180
aactagaaat aactttgcaa ggagagccaa agctaagacc cccgaaacca gacgagctac 240
ctaagaacag ctaaaagagc acaccgtct atgtagcaaa atagtgggaa gatttatagg 300
tagaggcgac aaacctaccg agcctggtga tagctggttg tccaagatag aatctttagt 360
tcaacttta atttgcccac agaacctcta aatccccttg taaatttaac tggtaagtcc 420
caaggaggac agtctttgg                                              439

<210> 926
<211> 183
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<400> 926
caatctatca ccctatagaa gaactaatgt tagtataagt aacatgaaaa cattctcctc 60
```

```
cgcataagcc tgcgtcagat taaaacactg aactgacaat taacagccca atatctacaa 120
tcaaccaaca agtcattatt accctcactg tcaacccaac aaaaaaaaaa aaaaaaaana 180
aaa                                                                 183
```

```
<210> 927
<211> 432
<212> DNA
<213> Homo sapiens
```

```
<400> 927
cggaagtgga ggaaagatgg aggaccatca gcacgtgccc atcgacatcc agaccagcaa 60
gctgctcgat tggctggtgg acagaaggca ctgcagcctg aaatggcaga gtctggtgct 120
gacgatccgc gagaagatca atgctgccat ccaggacatg ccagagagcg aagagatcgc 180
ccagctgctg tctgggtcct acattcacta cttcactgc ctaagaatcc tggaccttct 240
caaaggcaca gaggcctcca cgaagaatat ttttggccga tactcttcac agcggatgaa 300
ggattggcag gagattatag ctctgtatga gaaggacaac acctacttag tggaactctc 360
tagcctcctg gttcggaatg tcaactatga gatcccctca ctgaagaagc agattgccaa 420
gtgccagcag ct                                                      432
```

```
<210> 928
<211> 439
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c
```

```
<400> 928
agacaacctt agccaaacca tttacccaaa taaagtatag gcgatagaaa ttgaaacctg 60
gcgcaataga tatagtaccg caaggnaaag atgaaaaatt ataaccaagc ataatatagc 120
aaggactaac ccctatacct tctgcataat gaattaacta gaaataactt tgcaaggaga 180
gccaaagcta agacccccga aaccagacga gctacctaag aacagctaaa agagcacacc 240
cgtctatgta gcaaaatagt gggaagattt ataggtagag gcgacaaacc taccgagcct 300
ggtgatagct ggttgtccaa gatagtatct tagttcaact ttaaatttgc ccacagaacc 360
```

```
ctctaaatcc ccttgtaaat ttaactgtta gtcccaagag ggacagctct ttngncacta 420
gggaaaaacc ttgtagggn                                                  439
```

<210> 929
<211> 433
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

<400> 929
```
ctgcattcag cattttaagg atttatattc atagtcacgc gccgcttaag gaggattcat 60
tctgtgaaat gagttgttag gcagtttcat tgtgcgagca tcataggggtg aacttacaca 120
aacctaggtt gcagagccta ctgcacacct cggctgtgtg gtctaacctg ttgctcctgg 180
actgcaaacc tgtacagcct gttactgtcc tgaatactgc aggcagttag aacagagtgg 240
tacatagttg tgtttctaaa catatcggaa cctagaaaag gtacagtaga aatacggtat 300
tacaatctta tgggaccact gtctgtgtgc ggtctgttgt tgactgaaat gttatgcagt 360
acatgggctg ccatgagatt accttganaa ttttgcctga tatgaaacct agatatnacc 420
ttaaatatgg gna                                                      433
```

<210> 930
<211> 390
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<400> 930
gtcccccact cggagctcct ccagcccgct tcccgtattt gcagcatgtc ccggcgttca 60
cagagcttgg ctgcctcctc tgtcccagga gagagatgct tagagctgtc ctcccaggga 120
gtcatgtcag cctctagggt gtgcatggga gctgagggga cactcctgct gcctccctgg 180
agtggtaatt aaccgggact ttcctcctcc cagaaccaac atcccgggta acggttgggc 240
tgaaggacag gtgacgtgtc cctaactccc ccccttccct gcccgaggtt ccggcatcca 300
acgtcttggc ttcctggtct tcaagcagga cnaccgattg gcttttctga agangcaagn 360
ccttaacctg gtaanttaaa acaaccanaa   390

<210> 931
<211> 320
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (232)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<400> 931
cggtacgcgt gggcggacgc gtgggcggac gcgtggggcc atctcacctc ttcattctct 60
tgttacattt gaagcagttg atataatggg tttatacttt aaaagataga catggtgcca 120
tgaagttggg gagttgggtg aattatccca ttctagttac agangagctt tccttaaatg 180
ccctttaact tctaggtttt gttcnagaag ttcattttct gagttaaaag tnattttcat 240
atatgtttgg gggaaaatta actcatcctc aaaaagaatc cttattaggt tanttnaact 300
ccttaaaact naaccnaatc                                              320

<210> 932
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<400> 932
aaaaaagata tattaacagt tttagaagtc agtagaataa aatcttaaag cactcataat 60
atggcatcct tcaatttctg tataaaagca gatctttta aaaagatact tctgtaactt 120
aagaaacctg gcatttaaat catattttgt ctttaggtaa aagctttggt ttgtgttcgt 180
gttttgtttg tttcacttgt ttccctccca gccccaaacc ttttgttctc tccgtgaaac 240
ttacctttcc cttttncttt ctctt                                       265

<210> 933
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
```

```
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c


<400> 933
gtggnngcgc tnctagaact atggatcccc cggctgncag gattacggnc acgagcaagg 60
gcagtgttac acttatgagg aactgtctct agccatccag gnaagtacta ctgggtctga 120
gggatggaaa gttcttcctg ctatgaatga gagtggactc ttcccctcac ccccaactga 180
aaccacaaac aaccagaatc ttctggaatt ctgacttaga gtcgttgtta tagaagacct 240
tgttgctatg gaacatgaaa ctgtgtgtca gatggagaga tccccttaac ctaagagcct 300
taaatagccc tgaaagtaca ctgggacggt ttgcgatgga attaaaattg gaagtgatat 360
ttttaggtgc tcttgaaagc tttctgggga ctcaaaatta tcaaaagtca gggacagtcc 420
ggaggaagag cgtctgcaaa actgggttcc tagaagtata gancggactt agctg       475


<210> 934
<211> 322
<212> DNA
<213> Homo sapiens


<400> 934
ataaacaaca tctccagaca gatctacctg accgacaacc ctgaggcagt cgcgatcaag 60
ttgaatcaga ccgctctgca agcagtgact cccattacaa gttttggaaa aaaacaagaa 120
agctcatgcc ccagccagaa cctgaaaaat tcagagatgg aaaatgaaaa tgacaagatt 180
gttcccaaag caacagccag tctacctgaa gcagaggagc tgatcgcgcc tggaacgccg 240
attcaattcg atattgtgct tcctgctaca gaattccttg atcagaacag agggagcagg 300
cgtaccaacc ctttttggtga aa                                         322


<210> 935
<211> 378
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<400> 935
ggcagaggag aaactgtgtg tgaggggaag aggcctgttt cgctgtcggg tctctagttc 60
ttgcacgctc tttaagagtc tgcactggag gaactctgcc attaccagct cccttcttgc 120
nnangccggt gggaaacata catttattca tgccagtctg ttgcatgcag gcttttttggc 180
ttcctacctt gcaacaaaat gaattgcacc aactccttag tgccgattcc gcccacagag 240
agtcctggag ccacagtctt ttttgctttg cattgtagga gagggactaa gtgctagaga 300
ntatgtcgtt ttccctgagc taaccnngag cgttcgtgga actgggatca aactgntttc 360
agggnaaaag gaaaaaaa                                                 378

<210> 936
```

```
<211> 450
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

```
<222> (418)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c


<400> 936
ggtggtaagt ggcttcgtgg tctttatagc tgttactctt ttgtactttg tcttttttctt 60
ttattttctt ttgagcgatt gtgcgaacat agcatagcac gcactatgcc ttctgtgttg 120
tagctgcctg gccagggcga ctggcggata aggtcttgtg cgtggcctcg angcttaaaa 180
gtaacagtgg ggctttgtga angacaaaat ggcgatggcg ggccgtgtan gtcccccttc 240
ctatgatgaa agacctttc acagacctgt tactgaactc cgtgaagata aatantctga 300
aganatnggc cctgcaagcc tcttgcttac ccgtcctgtt ccaaaaaaat acgttttcca 360
aaatgccctg aatttgaact aatntcttat tgggcncccg ntctgccaga tttacccnca 420
ctttggaaca aaaaaaancc ttttgtttgc                                  450


<210> 937
<211> 209
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (175)
```

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<400> 937
agtcttaaga ccaannaagc acgnaagcgc cgtgaagagc gcctccaggc caagnaggag 60
gngatcatca agactttatc caaggaggaa gagaccaaga aataaaacct cccactttgt 120
ctgtacatac tggcctctgt gattacatag atcagccatt gaaaataaaa caagncttaa 180
tctgcanata ngacaagnan aaaatttcg                                  209

<210> 938
<211> 437
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (366)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
```

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<400> 938
cagaactgat agaacaaaca ctactctttt gaatttgatg gttcgtgtcc tttaaagtgt 60
ttgaggacct atgcagagcc tgtaacactt gggtagtacc tgctaggaca atttcttggc 120
aattgtctta ctactaggga tcagtaagat ttagattctg agcccataat ggcaacagcc 180
ccctcaccta tgggaagctg acttccctca gtcgggcact tctcatgggg gctgaacatg 240
gttcctgcca ttctgttacc cactctccca ggtgagccct ggattggctc ccagaaggcc 300
ttgtaaaaat ccatagccat cctgcaggca gtgggagcaa caggggcttt catagcttca 360
tttccngtct tgcagacaag gaccctgggn aacatgtgct gctaatanga taattactcc 420
gttgnccnaa ttaccag   437

<210> 939
<211> 450
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<400> 939
cngacgcgtg ggtcgaccna cgcgtccgcc cacgcgtccg cccacgcgtc cgacgacaga 60
agggtacggc tgcgagaaga cgcagaaggg tacggctgcg agaagacgnn agaaggggct 120
tttcacattc gggaaacgtc gggattaggt gaaagtacgt agttgtcttt cgtaagtcaa 180
aatgataatt gggccgaaac ttactgcctt acctaaaagg cagcgcagtc aggatattgg 240
taggtcgggg gcggctttgg aaacccttaa gtttacaagc atgcgcggac ttgagtgctc 300
attaggtcgc cgggcgtcca cgtgcagccc tggaccctga accccggcgt gcgttggccg 360
tnggcctcgg ggaaaagttc cgtgcactcg gggantccgg tgaagctgtt cagccgtctg 420
tgncatgtgg ccatcttgan tctactctgt                                  450
```

```
<210> 940
<211> 233
<212> DNA
<213> Homo sapiens
```

```
<400> 940
ggagcgcctg tgggagccct ggagggaact ttcccagtcc ccgaggcgga tcgggtgttg 60
catccatgga gcgagctgag agctcgagta cagaacctgc taaggccatc aaacctattg 120
atcagaagtc agtccatcag atttgctctg ggcaggtggt actgagtcta agcactgcgg 180
taaaggagtt agtagaaaac agtctggatg ctggtgccac taatattgat cta          233
```

```
<210> 941
<211> 238
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (202)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (217)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 941

```
His Glu Cys Ala Cys Leu Pro Gly Tyr Ala Gly Asp Gly His Gln Cys
1               5                   10                  15

Thr Asp Val Asp Glu Cys Ser Glu Asn Arg Cys His Pro Ala Ala Thr
            20                  25                  30

Cys Tyr Asn Thr Pro Gly Ser Phe Ser Cys Arg Cys Gln Pro Gly Tyr
        35                  40                  45

Tyr Gly Asp Gly Phe Gln Cys Ile Pro Asp Ser Thr Ser Ser Leu Thr
    50                  55                  60

Pro Cys Glu Gln Gln Gln Arg His Ala Gln Ala Gln Tyr Ala Tyr Pro
65                  70                  75                  80

Gly Ala Arg Phe His Ile Pro Gln Cys Asp Glu Gln Gly Asn Phe Leu
                85                  90                  95

Pro Leu Gln Cys His Gly Ser Thr Gly Phe Cys Trp Cys Val Asp Pro
            100                 105                 110

Asp Gly His Glu Val Pro Gly Thr Gln Thr Pro Pro Gly Ser Thr Pro
            115                 120                 125

Pro His Cys Gly Pro Ser Pro Glu Pro Thr Gln Arg Pro Pro Thr Ile
    130                 135                 140

Cys Glu Arg Trp Arg Glu Asn Leu Leu Glu His Tyr Gly Gly Thr Pro
145                 150                 155                 160

Arg Asp Asp Gln Tyr Val Pro Gln Cys Asp Asp Leu Gly His Phe Ile
            165                 170                 175

Pro Leu Gln Cys His Gly Lys Ser Asp Phe Cys Trp Cys Val Asp Lys
            180                 185                 190

Asp Gly Arg Glu Val Gln Gly Thr Gly Xaa Pro Ala Arg His His Pro
            195                 200                 205

Cys Val Tyr Thr His Arg Arg Ser Xaa His Gly Pro Ala His Ala Pro
    210                 215                 220

Ala Arg Cys Xaa Pro Ser Ile Cys Gly Gln Leu Pro Gly Ala
225                 230                 235
```

<210> 942
<211> 341

<212> PRT
<213> Homo sapiens

<400> 942
Arg Thr Asn Leu Lys Glu Ala Ser Asp Ile Lys Leu Glu Pro Asn Thr
1   5   10   15

Leu Asn Gly Tyr Lys Ser Ser Val Thr Glu Pro Cys Pro Asp Ser Gly
            20   25   30

Glu Gln Leu Gln Pro Ala Pro Val Leu Gln Glu Glu Glu Leu Ala His
            35   40   45

Glu Thr Ala Gln Lys Gly Glu Ala Lys Cys His Lys Ser Asp Thr Gly
        50   55   60

Met Ser Lys Lys Lys Ser Arg Gln Gly Lys Leu Val Lys Gln Phe Ala
65   70   75   80

Lys Ile Glu Glu Ser Thr Pro Val His Asp Ser Pro Gly Lys Asp Asp
                85   90   95

Ala Val Pro Asp Leu Met Gly Pro His Ser Asp Gln Gly Glu His Ser
            100   105   110

Gly Thr Val Gly Val Pro Val Ser Tyr Thr Asp Cys Ala Pro Ser Pro
            115   120   125

Val Gly Cys Ser Val Val Thr Ser Asp Ser Phe Arg Thr Lys Asp Ser
    130   135   140

Phe Arg Thr Ala Lys Ser Lys Lys Lys Arg Arg Ile Thr Arg Tyr Asp
145   150   155   160

Ala Gln Leu Ile Leu Glu Asn Asn Ser Gly Ile Pro Lys Leu Thr Leu
                165   170   175

Arg Arg Arg His Asp Ser Ser Ser Lys Thr Asn Asp Gln Glu Asn Asp
            180   185   190

Gly Met Asn Ser Ser Lys Ile Ser Ile Lys Leu Ser Lys Asp His Asp
            195   200   205

Asn Asp Asn Asn Leu Tyr Val Ala Lys Leu Asn Asn Gly Phe Asn Ser
    210   215   220

Gly Ser Gly Ser Ser Ser Thr Lys Leu Lys Ile Gln Leu Lys Arg Asp
225   230   235   240

Glu Glu Asn Arg Gly Ser Tyr Thr Glu Gly Leu His Glu Asn Gly Val
            245   250   255

```
Cys Cys Ser Asp Pro Leu Ser Leu Leu Glu Ser Arg Met Glu Val Asp
            260             265             270

Asp Tyr Ser Gln Tyr Glu Glu Glu Ser Thr Asp Asp Ser Ser Ser Ser
            275             280             285

Glu Gly Asp Glu Glu Glu Asp Asp Tyr Asp Asp Asp Phe Glu Asp Asp
    290             295             300

Phe Ile Pro Leu Pro Pro Ala Lys Arg Leu Arg Leu Ile Val Gly Lys
305             310             315             320

Asp Ser Ile Asp Ile Asp Ile Ser Ser Arg Arg Arg Glu Asp Gln Ser
            325             330             335

Leu Arg Leu Asn Ala
            340
```

```
<210> 943
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (187)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 943
Xaa Leu Leu Lys Val Trp Arg Ala Xaa Gln Val Ser Val Ala Tyr Asn
  1             5              10              15

Ser Leu Asp Phe Glu Pro Glu Ile Phe Phe Ala Leu Gly Ser Pro Ile
            20              25              30

Ala Met Phe Leu Thr Ile Arg Gly Val Asp Arg Ile Asp Glu Asn Tyr
            35              40              45
```

```
Ser Leu Pro Thr Cys Lys Gly Phe Phe Asn Ile Tyr His Pro Leu Asp
     50              55                  60

Pro Val Ala Tyr Arg Leu Glu Pro Met Ile Val Pro Asp Leu Asp Leu
 65              70                  75                  80

Lys Ala Val Leu Ile Pro His His Lys Gly Arg Lys Arg Leu His Leu
                 85                  90                  95

Glu Leu Lys Glu Ser Leu Ser Arg Met Gly Ser Asp Leu Lys Gln Gly
             100                 105                 110

Phe Ile Ser Ser Leu Lys Ser Ala Trp Gln Thr Leu Asn Glu Phe Ala
             115                 120                 125

Arg Ala His Thr Ser Ser Thr Gln Leu Gln Glu Glu Leu Glu Lys Val
     130                 135                 140

Ala Asn Gln Ile Lys Glu Glu Glu Glu Lys Gln Val Val Glu Ala Glu
145                 150                 155                 160

Lys Val Val Glu Ser Pro Asp Phe Ser Lys Asp Glu Asp Tyr Leu Gly
                 165                 170                 175

Lys Val Gly Lys Val Lys Trp Arg Pro Pro Xaa Leu Thr Thr Phe Ser
             180                 185                 190

Lys Lys Asn Gln
         195



<210> 944
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 944
Pro His Gly Leu Arg Cys Pro Ser Cys Pro Gln Thr Ala Val Ser Arg
  1               5                  10                  15

Arg Gln Ala Arg Arg Met Val Thr Glu Thr Ser Arg Arg Arg Arg Ile
                 20                  25                  30

Gln Glu Leu Glu Glu Arg Arg Arg Xaa Phe Val Glu Ala Cys Arg Ala
             35                  40                  45
```

```
Arg Glu Ala Ala Phe Asp Ala Glu Tyr Gln Arg Asn Pro His Arg Val
     50              55              60

Asp Leu Asp Ile Leu Thr Phe Thr Ile Ala Leu Thr Ala Ser Glu Val
 65              70              75              80

Ile Asn Pro Leu Ile Glu Glu Leu Gly Cys Asp Lys Phe Ile Asn Arg
             85              90              95

Glu
```

```
<210> 945
<211> 123
<212> PRT
<213> Homo sapiens

<400> 945
Ser Gly Ser Pro Gly Leu Gln Glu Phe Arg Ala Pro Gly Val Gln Gln
  1           5              10              15

Asp Glu Arg Leu Ala Ser Pro Ile His Ser Thr Tyr Ile Pro Ile Pro
             20              25              30

Thr Ser Ala Ile Cys Ala Thr Gly Ser Asn Gly Ser Ala Pro Thr Arg
         35              40              45

Ile Ser Val Gln Cys Leu Ser Pro Ala Thr Thr Gly Ser Ala Ser Val
     50              55              60

Asp Leu Cys Cys Thr Arg Asp Ile Ser Leu Leu Pro Gly Glu Pro Pro
 65              70              75              80

Ile Ala Val Pro Thr Gly Val Phe Gly Pro Leu Pro Thr Gly Ser Val
             85              90              95

Gly Leu Leu Phe Asp Leu Ser Ser Leu Asn Leu Lys Gly Val Gln Val
             100             105             110

His Thr Gly Val Ile Asp Ser Asp Ile Gln Val
         115             120
```

```
<210> 946
<211> 45
<212> PRT
<213> Homo sapiens
```

<400> 946

Gly Phe Leu Gly Leu Leu Phe Met Pro Gln Ala Thr Tyr Pro Gly Glu
 1   5   10   15

Ser Leu Pro Val Leu Leu His Glu Phe Leu Ser His Arg Met His Val
             20   25   30

Pro Leu His Phe Val Thr Ser Val Ser Pro Thr Arg Gln
         35   40   45

<210> 947
<211> 160
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 947

```
Gly Pro Arg Arg Gly Pro Gly Pro Gly Gly Cys Ala Ala Pro Ala Thr
 1               5               10              15

Glu Glu Gln Glu Ala Ala Ser Ser Ser Ser Xaa Leu Xaa Glu Val Thr
             20              25              30

Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln Ser Pro
         35              40              45

Gln Gly Ala Ser Ser Leu Pro Xaa Thr Met Asn Tyr Pro Leu Trp Ser
     50              55              60

Gln Ser Tyr Glu Asp Ser Ser Asn Gln Glu Glu Glu Gly Pro Ser Thr
65              70              75              80

Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys Val
             85              90              95

Ala Lys Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Xaa Glu Pro
             100             105             110

Val Thr Lys Ala Glu Met Leu Gly Ser Val Val Gly Lys Leu Ala Ser
         115             120             125

Thr Ser Phe Xaa Xaa Ile Phe Lys Gln Lys Leu Ser Asp Phe Leu Cys
     130             135             140

Asn Leu Xaa Phe Trp His Ser Lys Leu Glu Trp Xaa Val Gly Pro Pro
145             150             155             160
```

<210> 948
<211> 53
<212> PRT
<213> Homo sapiens

<400> 948

```
Ser Asn Trp Ile Ile Asp Cys Asn Cys Leu Glu Ile Tyr His Lys Asn
 1               5               10              15
```

```
Arg Leu Cys Phe Phe Gly Ile Ala Pro Asn Phe Ser Leu Leu Leu Arg
              20                  25                  30

Ala Ala His Ala Val Leu Ser Ser Tyr Trp Ser Gln Pro Leu Gly Glu
          35                  40                  45

Glu Arg Asn Ala Trp
      50



<210> 949
<211> 154
<212> PRT
<213> Homo sapiens

<400> 949
Trp Asp Tyr Ile Leu Cys Ala Gly Leu Arg Glu His Glu Glu Gly Ala
 1               5                  10                  15

Ile Cys His Thr Leu Glu Ala Glu Ala Cys Thr Ser Ala Ala Arg Leu
              20                  25                  30

Thr Val Val Gly Gly Gly Asp Gly Asn Cys Arg Ser Ala Arg Val Val
          35                  40                  45

Glu Lys Leu Leu Gln Gly Phe Ser Gly Phe Ala Cys Pro Ala Ala Pro
      50                  55                  60

Cys Leu Ala Arg Gly Glu Gly Gly Ala Thr Cys Gly Thr Leu Glu Ala
65              70                  75                  80

Gly Ala Cys Arg Trp His Gly Ser Ala Ala His Leu Ala Ala Val Gly
                85                  90                  95

Gly Gly Asp Arg Asp Cys Ser Leu Thr Val Val Asn Leu Glu Ile Ile
            100                 105                 110

Cys Leu Glu Ala Leu Ser Leu Ser Trp Asp Leu Lys Arg Arg Gly Ser
            115                 120                 125

Pro Asn Ser Gln Gln Ser Asn Ser Lys Trp Cys Cys Lys Leu Asn His
            130                 135                 140

Thr Trp Thr Gly His Ser Ser Glu Asp Pro
145                 150



<210> 950
```

```
<211> 442
<212> PRT
<213> Homo sapiens

<400> 950
Ala Arg Gly Thr Glu Thr Cys Gly Leu Ile Gln Val Thr Leu Leu Asp
 1               5                  10                  15

Thr Val Glu Leu Ala Thr Tyr Thr Val Arg Thr Phe Ala Leu His Lys
            20                  25                  30

Ser Gly Ser Ser Glu Lys Arg Glu Leu Arg Gln Phe Gln Phe Met Ala
            35                  40                  45

Trp Pro Asp His Gly Val Pro Glu Tyr Pro Thr Pro Ile Leu Ala Phe
     50                  55                  60

Leu Arg Arg Val Lys Ala Cys Asn Pro Leu Asp Ala Gly Pro Met Val
65                  70                  75                  80

Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Cys Phe Ile Val Ile
                85                  90                  95

Asp Ala Met Leu Glu Arg Met Lys His Glu Lys Thr Val Asp Ile Tyr
            100                 105                 110

Gly His Val Thr Cys Met Arg Ser Gln Arg Asn Tyr Met Val Gln Thr
            115                 120                 125

Glu Asp Gln Tyr Val Phe Ile His Glu Ala Leu Leu Glu Ala Ala Thr
    130                 135                 140

Cys Gly His Thr Glu Val Pro Ala Arg Asn Leu Tyr Ala His Ile Gln
145                 150                 155                 160

Lys Leu Gly Gln Val Pro Pro Gly Glu Ser Val Thr Ala Met Glu Leu
                165                 170                 175

Glu Phe Lys Leu Leu Ala Ser Ser Lys Ala His Thr Ser Arg Phe Ile
            180                 185                 190

Ser Ala Asn Leu Pro Cys Asn Lys Phe Lys Asn Arg Leu Val Asn Ile
            195                 200                 205

Met Pro Tyr Glu Leu Thr Arg Val Cys Leu Gln Pro Ile Arg Gly Val
    210                 215                 220

Glu Gly Ser Asp Tyr Ile Asn Ala Ser Phe Leu Asp Gly Tyr Arg Gln
225                 230                 235                 240

Gln Lys Ala Tyr Ile Ala Thr Gln Gly Pro Leu Ala Glu Ser Thr Glu
```

```
                    245                 250                 255

    Asp Phe Trp Arg Met Leu Trp Glu His Asn Ser Thr Ile Ile Val Met
                260                 265                 270

    Leu Thr Lys Leu Arg Glu Met Gly Arg Glu Lys Cys His Gln Tyr Trp
                275                 280                 285

    Pro Ala Glu Arg Ser Ala Arg Tyr Gln Tyr Phe Val Val Asp Pro Met
                290                 295                 300

    Ala Glu Tyr Asn Met Pro Gln Tyr Ile Leu Arg Glu Phe Lys Val Thr
    305                 310                 315                 320

    Asp Ala Arg Asp Gly Gln Ser Arg Thr Ile Arg Gln Phe Gln Phe Thr
                325                 330                 335

    Asp Trp Pro Glu Gln Gly Val Pro Lys Thr Gly Glu Gly Phe Ile Asp
                340                 345                 350

    Phe Ile Gly Gln Val His Lys Thr Lys Glu Gln Phe Gly Gln Asp Gly
                355                 360                 365

    Pro Ile Thr Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Val Phe
                370                 375                 380

    Ile Thr Leu Ser Ile Val Leu Glu Arg Met Arg Tyr Glu Gly Val Val
    385                 390                 395                 400

    Asp Met Phe Gln Thr Val Lys Thr Leu Arg Thr Gln Arg Pro Ala Met
                405                 410                 415

    Val Gln Thr Glu Asp Gln Tyr Gln Leu Cys Tyr Arg Ala Ala Leu Glu
                420                 425                 430

    Tyr Leu Gly Ser Phe Asp His Tyr Ala Thr
                435                 440


    <210> 951
    <211> 82
    <212> PRT
    <213> Homo sapiens

    <400> 951
    Asn Ser Lys Val Gly Ile Ser Arg Asn Cys Val Gln Met His Pro Val
    1                   5                   10                  15

    Val Ala Leu Gln Glu Val Cys Leu Met Lys Leu Gly Lys His Phe Ala
                20                  25                  30
```

Ile Phe Pro Leu Ala Val Phe Leu Cys Ser Leu Leu Pro Leu Phe Phe
         35   40   45

Pro Trp Phe Val Ile Ile Arg Arg Glu Val Leu Gln Arg Leu Val Ala
     50   55   60

Val Lys Glu Ser Phe Phe Asn Phe Tyr Pro Arg Val Ser His Phe Tyr
 65   70   75   80

Ser Arg

<210> 952
<211> 475
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (465)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (468)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (469)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 952
Leu Val Leu Pro Leu His Ala Val Glu Lys Thr Gly Arg Pro Gly Gln
 1   5   10   15

Pro Ala Leu Lys Met Pro Gly Lys Leu Arg Ser Asp Ala Gly Leu Glu
         20   25   30

Ser Asp Thr Ala Met Lys Lys Gly Glu Thr Leu Arg Lys Gln Thr Glu
         35   40   45

Glu Lys Glu Lys Lys Glu Lys Pro Lys Ser Asp Lys Thr Glu Glu Ile
     50   55   60

Ala Glu Glu Glu Glu Thr Val Phe Pro Lys Ala Lys Gln Val Lys Lys
 65   70   75   80

```
Lys Ala Glu Pro Ser Glu Val Asp Met Asn Ser Pro Lys Ser Lys Lys
                85                  90                  95

Ala Lys Lys Lys Glu Glu Pro Ser Gln Asn Asp Ile Ser Pro Lys Thr
            100                 105                 110

Lys Ser Leu Arg Lys Lys Lys Glu Pro Ile Glu Lys Lys Val Val Ser
        115                 120                 125

Ser Lys Thr Lys Lys Val Thr Lys Asn Glu Glu Pro Ser Glu Glu Glu
    130                 135                 140

Ile Asp Ala Pro Lys Pro Lys Lys Met Lys Lys Glu Lys Glu Met Asn
145                 150                 155                 160

Gly Glu Thr Arg Glu Lys Ser Pro Lys Leu Lys Asn Gly Phe Pro His
                165                 170                 175

Pro Glu Pro Asp Cys Asn Pro Ser Glu Ala Ala Ser Glu Glu Ser Asn
            180                 185                 190

Ser Glu Ile Glu Gln Glu Ile Pro Val Glu Gln Lys Glu Gly Ala Phe
        195                 200                 205

Ser Asn Phe Pro Ile Ser Glu Glu Thr Ile Lys Leu Leu Lys Gly Arg
    210                 215                 220

Gly Val Thr Phe Leu Phe Pro Ile Gln Ala Lys Thr Phe His His Val
225                 230                 235                 240

Tyr Ser Gly Lys Asp Leu Ile Ala Gln Ala Arg Thr Gly Thr Gly Lys
                245                 250                 255

Thr Phe Ser Phe Ala Ile Pro Leu Ile Glu Lys Leu His Gly Glu Leu
            260                 265                 270

Gln Asp Arg Lys Arg Gly Arg Ala Pro Gln Val Leu Val Leu Ala Pro
        275                 280                 285

Thr Arg Glu Leu Ala Asn Gln Val Ser Lys Asp Phe Ser Asp Ile Thr
    290                 295                 300

Lys Lys Leu Ser Val Ala Cys Phe Tyr Gly Gly Thr Pro Tyr Gly Gly
305                 310                 315                 320

Gln Phe Glu Arg Met Arg Asn Gly Ile Asp Ile Leu Val Gly Thr Pro
                325                 330                 335

Gly Arg Ile Lys Asp His Ile Gln Asn Gly Lys Leu Asp Leu Thr Lys
                340                 345                 350
```

```
Leu Lys His Val Val Leu Asp Glu Val Asp Gln Met Leu Asp Met Gly
        355             360             365

Phe Ala Asp Gln Val Glu Glu Ile Leu Ser Val Ala Tyr Lys Lys Asp
        370             375             380

Ser Glu Asp Asn Pro Gln Thr Leu Leu Phe Ser Ala Thr Cys Pro His
385             390             395             400

Trp Val Phe Asn Val Ala Lys Lys Tyr Met Lys Ser Thr Tyr Glu Gln
            405             410             415

Val Asp Leu Ile Gly Lys Lys Thr Gln Lys Thr Ala Ile Thr Val Glu
            420             425             430

His Leu Ala Ile Lys Cys His Trp Thr Gln Arg Ala Ala Val Ile Gly
        435             440             445

Asp Val Ile Arg Val Tyr Ser Gly His Gln Gly Arg Thr Ile Ile Phe
    450             455             460

Xaa Glu Thr Xaa Xaa Glu Ala Gln Glu Leu Ser
465             470             475
```

<210> 953
<211> 259
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 953
```
His Glu Ala Lys Trp Ala Arg Glu Glu Glu Glu Ala Gln Arg Arg Leu
 1              5               10              15

Glu Glu Asn Arg Leu Arg Met Glu Glu Glu Ala Ala Arg Leu Arg His
            20              25              30

Glu Glu Glu Glu Arg Lys Arg Lys Ala Leu Glu Val Gln Arg Gln Lys
        35              40              45

Glu Leu Met Arg Gln Arg Gln Gln Gln Gln Glu Ala Leu Arg Arg Leu
    50              55              60

Gln Gln Gln Gln Gln Gln Gln Gln Leu Ala Gln Met Lys Leu Pro Ser
65              70              75              80
```

```
Ser Ser Thr Trp Gly Gln Gln Ser Asn Thr Thr Ala Cys Gln Ser Gln
                85                  90              95

Ala Thr Leu Ser Leu Ala Glu Ile Gln Lys Leu Glu Glu Glu Arg Glu
            100              105              110

Arg Gln Xaa Arg Glu Glu Gln Arg Arg Gln Gln Arg Glu Leu Met Lys
            115              120              125

Ala Leu Gln Gln Gln Gln Gln Gln Gln Gln Lys Leu Ser Gly Trp
    130              135              140

Gly Asn Val Ser Lys Pro Ser Gly Thr Thr Lys Ser Leu Leu Glu Ile
145              150              155              160

Gln Gln Glu Glu Ala Arg Gln Met Gln Lys Gln Gln Gln Gln Gln Gln
                165              170              175

Gln His Gln Gln Pro Asn Arg Ala Arg Asn Asn Thr His Ser Asn Leu
            180              185              190

His Thr Ser Ile Gly Asn Ser Val Trp Gly Ser Ile Asn Thr Gly Pro
            195              200              205

Pro Asn Gln Trp Ala Ser Asp Leu Val Ser Ser Ile Trp Ser Asn Ala
    210              215              220

Asp Thr Lys Asn Ser Asn Met Gly Phe Trp Asp Asp Ala Val Lys Glu
225              230              235              240

Val Gly Pro Arg Asn Ser Thr Asn Lys Asn Lys Asn Asn Ala Ile Ser
            245              250              255

Val Asn Leu
```

```
<210> 954
<211> 144
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 954
Ile Val Tyr Val Pro Ser His Leu His His Met Xaa Phe Glu Leu Phe
 1   5   10   15

Xaa Asn Ala Met Arg Ala Thr Val Glu His Gln Glu Asn Gln Pro Xaa
            20   25   30

Leu Thr Pro Ile Glu Val Ile Val Ala Leu Gly Lys Glu Asp Leu Thr
        35   40   45

Ile Lys Ile Ser Asp Arg Gly Gly Val Pro Leu Arg Ile Ile Asp
    50   55   60

Arg Leu Phe Ser Tyr Thr Tyr Ser Thr Ala Pro Thr Pro Val Met Asp
65   70   75   80

Asn Ser Arg Asn Ala Pro Leu Ala Gly Phe Gly Tyr Gly Leu Pro Ile
            85   90   95

Ser Arg Leu Tyr Ala Lys Tyr Phe Gln Gly Xaa Leu Asn Leu Tyr Ser
            100   105   110

Leu Xaa Gly Tyr Gly Thr Asp Ala Ile Ile Tyr Leu Lys Ala Leu Val

```
                    115                    120                    125
          Thr Xaa Cys Gln Phe Leu Val Cys Met Gln Ser Thr Phe Lys Glu Xaa
              130                    135                    140
```

```
<210> 955
<211> 243
<212> PRT
<213> Homo sapiens

<400> 955
Thr Arg Pro Arg Thr Arg Gly Leu Trp Arg Pro Gly Trp Arg Cys Val
  1               5                  10                  15

Pro Phe Cys Gly Trp Arg Trp Ile His Pro Gly Ser Pro Thr Arg Ala
              20                  25                  30

Ala Glu Arg Val Glu Pro Phe Leu Arg Pro Glu Trp Ser Gly Thr Gly
          35                  40                  45

Gly Ala Glu Arg Gly Leu Arg Trp Leu Gly Thr Trp Lys Arg Cys Ser
      50                  55                  60

Leu Arg Ala Arg His Pro Ala Leu Gln Pro Pro Arg Arg Pro Lys Ser
 65                  70                  75                  80

Ser Asn Pro Phe Thr Arg Ala Gln Glu Glu Glu Arg Arg Arg Gln Asn
                  85                  90                  95

Lys Thr Thr Leu Thr Tyr Val Ala Ala Val Ala Val Gly Met Leu Gly
              100                 105                 110

Ala Ser Tyr Ala Ala Val Pro Leu Tyr Arg Leu Tyr Cys Gln Thr Thr
              115                 120                 125

Gly Leu Gly Gly Ser Ala Val Ala Gly His Ala Ser Asp Lys Ile Glu
          130                 135                 140

Asn Met Val Pro Val Lys Asp Arg Ile Ile Lys Ile Ser Phe Asn Ala
145                 150                 155                 160

Asp Val His Ala Ser Leu Gln Trp Asn Phe Arg Pro Gln Gln Thr Glu
                  165                 170                 175

Ile Tyr Val Val Pro Gly Glu Thr Ala Leu Ala Phe Tyr Arg Ala Lys
              180                 185                 190
```

```
Asn Pro Thr Asp Lys Pro Val Ile Gly Ile Ser Thr Tyr Asn Ile Val
        195             200             205

Pro Phe Glu Ala Gly Gln Tyr Phe Asn Lys Ile Gln Cys Phe Cys Phe
    210             215             220

Glu Glu Gln Arg Leu Asn Pro Gln Glu Glu Val Gly Tyr Ala Ser Val
225             230             235             240

Phe Leu His
```

```
<210> 956
<211> 184
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 956
Gly Leu Val Val Thr Leu Leu Thr His Xaa Phe Xaa Ile Asn Ser Xaa
  1             5             10              15

Asn Phe Cys Thr Ser Ala Lys Asp Ala Phe Val Ile Leu Val Glu Asn
            20              25              30

Ala Leu Arg Val Ala Thr Ile Asn Thr Val Gly Asp Phe Met Leu Phe
        35              40              45

Leu Gly Lys Val Leu Ile Val Cys Ser Thr Gly Leu Ala Gly Ile Met
    50              55              60

Leu Leu Asn Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu Pro Leu Ile
 65             70              75              80
```

```
Ile Val Cys Leu Phe Ala Phe Leu Val Ala His Cys Phe Leu Ser Ile
              85              90              95

Tyr Glu Met Val Val Asp Val Leu Phe Leu Cys Phe Ala Ile Asp Thr
            100             105             110

Lys Tyr Asn Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met Asp Lys Val
            115             120             125

Leu Met Glu Phe Val Glu Asn Ser Arg Lys Ala Met Lys Glu Ala Gly
        130             135             140

Lys Gly Gly Val Ala Asp Ser Arg Glu Leu Asn Arg Cys Phe Gly Ser
145             150             155             160

Lys Phe Cys Leu Asn Leu Ala Asp Gly Tyr Gly Asn Pro Leu Thr Phe
            165             170             175

Gln Asn Asn Ile Tyr Thr His Thr
            180
```

```
<210> 957
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 957
Ser Arg Ser Pro Val Leu Asp Pro Ser Glu Pro Gln Pro Leu Ala Ala
  1              5              10             15

Met His Val Ile Lys Arg Asp Gly Arg Gln Glu Arg Val Met Phe Asp
             20             25             30

Lys Ile Thr Ser Arg Ile Gln Lys Leu Cys Tyr Gly Leu Asn Met Asp
         35             40             45

Phe Val Asp Pro Ala Gln Ile Thr Met Lys Val Ile Gln Gly Leu Tyr
     50             55             60

Ser Gly Val Thr Thr Val Glu Leu Asp Thr Leu Ala Ala Glu Thr Ala
65             70             75             80

Ala Thr Leu Thr Thr Lys His Pro Asp Tyr Ala Ile Leu Ala Ala Arg
             85             90             95
```

```
Ile Ala Val Ser Asn Leu His Lys Glu Thr Lys Lys Val Phe Ser Asp
            100                 105                 110

Val Met Glu Asp Leu Tyr Xaa Leu His Lys Ser Thr
            115                 120
```

```
<210> 958
<211> 117
<212> PRT
<213> Homo sapiens

<400> 958
Ser Ile Met Phe Val Ala Leu Met Lys Tyr Phe Gln Glu Met Cys Pro
 1               5                   10                  15

Gly Val Ala Leu Ala Met Leu Thr Arg Pro Leu Val Thr Gln Arg Ala
            20                  25                  30

Leu Gly Pro Asp Gly Asp Leu Pro Leu Arg Phe Leu Tyr Gln Ala Leu
            35                  40                  45

Ser Ser His Gly Ala Ser Gly Thr Ser Leu Leu Ser Trp Glu Lys Gly
      50                  55                  60

Asn Trp Leu Pro Arg Gln Val Val Glu Ser Val Ala Gly Thr Arg Leu
 65                 70                  75                  80

Glu Ala His Leu Val Val Asn Arg Ala Gln Trp Gly Arg Leu Gly Met
                85                  90                  95

Leu Trp Ser Met Gly Leu Phe Pro Gly Glu Cys Ser Gly Met Ser Ser
            100                 105                 110

Gln Leu Leu Trp Cys
            115
```

```
<210> 959
<211> 267
<212> PRT
<213> Homo sapiens

<400> 959
Ser Met Pro Gly Trp Arg Leu Leu Thr Gln Val Gly Ala Gln Val Leu
 1               5                   10                  15

Gly Arg Leu Gly Asp Gly Leu Gly Ala Ala Leu Gly Pro Gly Asn Arg
```

```
                    20                    25                    30

Thr His Ile Trp Leu Phe Val Arg Gly Leu His Gly Lys Ser Gly Thr
            35                    40                    45

Trp Trp Asp Glu His Leu Ser Glu Glu Asn Val Pro Phe Ile Lys Gln
        50                    55                    60

Leu Val Ser Asp Glu Asp Lys Ala Gln Leu Ala Ser Lys Leu Cys Pro
65                    70                    75                    80

Leu Lys Asp Glu Pro Trp Pro Ile His Pro Trp Glu Pro Gly Ser Phe
                85                    90                    95

Arg Val Gly Leu Ile Ala Leu Lys Leu Gly Met Met Pro Leu Trp Thr
            100                   105                   110

Lys Asp Gly Gln Lys His Val Val Thr Leu Leu Gln Val Gln Asp Cys
            115                   120                   125

His Val Leu Lys Tyr Thr Ser Lys Glu Asn Cys Asn Gly Lys Met Ala
        130                   135                   140

Thr Leu Ser Val Gly Gly Lys Thr Val Ser Arg Phe Arg Lys Ala Thr
145                   150                   155                   160

Ser Ile Leu Glu Phe Tyr Arg Glu Leu Gly Leu Pro Pro Lys Gln Thr
                165                   170                   175

Val Lys Ile Phe Asn Ile Thr Asp Asn Ala Ala Ile Lys Pro Gly Thr
            180                   185                   190

Pro Leu Tyr Ala Ala His Phe Arg Pro Gly Gln Tyr Val Asp Val Thr
            195                   200                   205

Ala Lys Thr Ile Gly Lys Gly Phe Gln Gly Val Met Lys Arg Trp Gly
        210                   215                   220

Phe Lys Gly Gln Pro Ala Thr His Gly Gln Thr Lys Thr His Arg Arg
225                   230                   235                   240

Pro Gly Ala Val Ala Thr Gly Asp Ile Gly Arg Val Trp Pro Gly Thr
                245                   250                   255

Lys Met Pro Gly Lys Met Gly Lys Cys Gly Glu
            260                   265
```

<210> 960
<211> 165

<212> PRT
<213> Homo sapiens

<400> 960
Pro Arg Val Arg Ala Arg Trp Arg Arg Gly His Phe Phe His Cys Pro
 1   5   10   15

Ser Glu Gly Thr Leu Ser Ser Val Ser Gly Ala Val Phe Gln Leu Arg
                20   25   30

Val Val Pro Arg Glu Ser Glu Arg Pro Ser Pro Gly Trp Cys Asp Gly
            35   40   45

Arg Gly Gly Gly Gln Ala Gly Arg Ala Ala Val His Gln Arg Gly Gly
    50   55   60

Arg Ala Gly Gln Arg Arg Arg Pro Gly Leu Leu Pro Asp Leu Gly Val
65   70   75   80

Ser Ala Val Gly Gly His Gly Arg His Pro Arg Pro His Arg Pro Leu
                85   90   95

Arg Leu His Leu Leu Pro Ala Arg Leu Arg Pro Ala Leu Pro Ala Pro
            100   105   110

His Ser Gln Gly Gly Lys Glu Val Glu Gln Ile Phe Gln Ile Thr Glu
            115   120   125

Thr Ser Leu Tyr Arg Arg Pro His Arg Gly Pro Leu His Leu Arg Pro
    130   135   140

Val Leu Asp Val Pro Leu Arg His Gly Ala Arg Leu Leu Lys Trp Gly
145   150   155   160

Pro Gly Gly Leu Phe
                165

<210> 961
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 961
Thr Ala Thr Thr Glu Val Glu Val Leu Asp Met Xaa Val Leu Pro Leu

```
 1              5                  10                 15

Val Tyr Ile Leu Met Asn Ile Asp Val Asn Lys Lys Gly Lys Lys Gln
         20              25                 30

Asn Thr Arg Phe Phe Pro Ile Leu Met Leu Ala Pro Ser Lys Ser Leu
         35              40                 45

Pro Thr Arg Met Asn Thr Phe Pro Lys Leu Asn Lys Phe Leu Phe Ile
      50              55                 60

Lys Leu Arg Leu Lys Phe Val Gly Leu Gly Ser Phe Leu Lys Pro Arg
65              70                 75                 80

Ala Cys Pro Leu Pro Thr Pro Pro Ser Phe Ala Pro Lys
            85                 90
```

<210> 962
<211> 173
<212> PRT
<213> Homo sapiens

<400> 962
```
Glu Pro Lys Ala Lys Pro His Arg Ser Arg Gly Ser Gly Thr Arg Ala
 1              5                  10                 15

Val Arg Arg Arg Ser Cys Leu Gln Ser Ala Ala Glu Ala Ala His Gly
            20                 25                 30

Pro Asp Thr Pro Ala Ala Arg Ala Leu Gln Ser Leu Gly His Pro Val
         35              40                 45

Val Gly Asp Leu Thr Tyr Gly Glu Val Ser Gly Arg Glu Asp Arg Pro
      50              55                 60

Phe Arg Met Met Leu His Ala Phe Tyr Leu Arg Ile Pro Thr Asp Thr
65              70                 75                 80

Glu Cys Val Glu Val Cys Thr Pro Asp Pro Phe Leu Pro Ser Leu Asp
            85                 90                 95

Ala Cys Trp Ser Pro His Thr Leu Leu Gln Ser Leu Asp Gln Leu Val
            100             105                110

Gln Ala Leu Arg Ala Thr Pro Asp Pro Asp Pro Glu Asp Arg Gly Pro
            115             120                125

Arg Pro Gly Ser Pro Ser Ala Leu Leu Pro Gly Pro Gly Arg Pro Pro
      130             135                140
```

```
Pro Pro Pro Thr Lys Pro Pro Glu Thr Glu Ala Gln Arg Gly Pro Cys
145             150             155                 160

Leu Gln Trp Leu Ser Glu Trp Thr Leu Glu Pro Asp Ser
                165             170
```

<210> 963
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 963
```
Ser Ser Arg Gly Glu Pro Arg Ala Ala Leu Leu Cys Lys Arg Ser Asp
 1               5               10                  15

Val Leu Leu Glu Pro Phe Arg Arg Gly Val Met Glu Lys Leu Gln Leu
                20              25                  30

Gly Pro Glu Ile Leu Gln Arg Glu Asn Pro Arg Leu Ile Tyr Xaa Xaa
            35              40                  45

Leu Ser Gly Phe Gly Gln Ser Gly Lys Leu Leu Pro Val Ser Trp Pro
        50              55              60

Arg Tyr Gln Leu Phe Gly Phe Cys Ser Gly Gly Arg Xaa Gln His Ile
65              70              75                  80
```

<210> 964

<211> 89
<212> PRT
<213> Homo sapiens

<400> 964
Ala Glu Ala Leu Gly Ser Pro Cys Phe Pro Gln Asp Leu Leu Leu Ala
1   5   10   15

Asn Arg Ser Ser Arg Gln Leu Leu Gln Cys Val Ser His Pro Ala Asn
                20   25   30

Arg Ser Val Cys Ile Ser Val Lys Glu Asn Ser Leu Val Pro Pro Gly
            35   40   45

Ser Ala Trp Lys Leu Asp Ala Asn Phe Tyr Ile Ala Trp Gln Thr Asp
        50   55   60

Gln Gln Cys Gln Ala Leu Ile Cys Ile Leu His Tyr Pro Phe Thr Trp
65   70   75   80

Phe Leu Ala Leu Asn Gly Leu Gln Pro
                85

<210> 965
<211> 323
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 965
Gly Arg Ala Ser Glu Arg Ala Ser Arg Gln Gln Ala Ala Gly Gly Arg
1   5   10   15

Ala Asp Gly Thr Glu Gly Gly Ser Glu Arg Ala Val Ser Lys Pro Ala
                20   25   30

Arg Ala Val Gly Ser Arg Gly Gln Pro Arg Phe Leu Arg Ser Leu Arg
            35   40   45

Pro Pro Pro Trp Ser Pro Gln Arg Leu Arg Cys Pro Glu Asp Arg Thr
        50   55   60

Arg Pro Gly Pro Ala Met Ala Ser Leu Leu Lys Val Asp Gln Glu Val
65   70   75   80

Lys Leu Lys Val Asp Ser Phe Arg Glu Arg Ile Thr Ser Glu Ala Glu
                85   90   95

Asp Leu Val Ala Asn Phe Phe Pro Lys Lys Leu Leu Glu Leu Asp Ser
            100   105   110

Phe Leu Lys Glu Pro Ile Leu Asn Ile His Asp Leu Thr Gln Ile His
        115   120   125

Ser Asp Met Asn Leu Pro Val Pro Asp Pro Ile Leu Leu Thr Asn Ser
    130   135   140

His Asp Gly Leu Asp Gly Pro Thr Tyr Lys Lys Arg Arg Leu Asp Glu
145   150   155   160

Cys Glu Glu Ala Phe Gln Gly Thr Lys Val Phe Val Met Pro Asn Gly
            165   170   175

Met Leu Lys Ser Asn Gln Gln Leu Val Asp Ile Ile Glu Lys Val Lys
            180   185   190

Pro Glu Ile Arg Leu Leu Ile Glu Lys Cys Asn Thr Val Lys Met Trp
        195   200   205

Val Gln Leu Leu Ile Pro Arg Ile Glu Xaa Gly Asn Asn Phe Gly Val
    210   215   220

Ser Ile Gln Glu Glu Thr Val Ala Glu Leu Arg Thr Val Glu Ser Glu
225   230   235   240

Ala Ala Ser Tyr Leu Asp Gln Ile Ser Arg Tyr Tyr Ile Thr Arg Ala
            245   250   255

Lys Leu Val Ser Lys Ile Ala Lys Tyr Pro His Val Glu Asp Tyr Arg
            260   265   270

Arg Thr Val Thr Glu Ile Asp Glu Lys Glu Tyr Ile Ser Leu Arg Leu
        275   280   285

Ile Ile Ser Glu Leu Arg Asn Gln Tyr Val Thr Leu His Asp Met Ile
    290   295   300

Leu Lys Asn Ile Glu Lys Ile Lys Arg Pro Arg Ser Ser Asn Ala Glu
305   310   315   320

Thr Leu Tyr

<210> 966

<211> 314
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (300)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 966
```
Val Ser Pro Gln Lys Ala Ala Ser Leu Val Arg Ile Arg Trp Arg His
 1               5                  10                  15

Val Arg Pro Ser Pro Pro Ser Ala Ser Arg Leu Arg Arg Leu Pro Pro
            20                  25                  30

Arg His Leu Thr Val Ala Xaa Arg Pro Arg Arg Glu Gly Val Gly Thr
            35                  40                  45

Gly Ser Arg Ala Val Leu Cys Ile Leu Ala Thr Cys Gly Ser Lys Met
        50                  55                  60

Ser Asp Ile Gly Asp Trp Phe Arg Ser Ile Pro Ala Ile Thr Arg Tyr
65                  70                  75                  80

Trp Phe Ala Ala Thr Val Ala Val Pro Leu Val Gly Lys Leu Gly Leu
                85                  90                  95

Ile Ser Pro Ala Tyr Leu Phe Leu Trp Pro Glu Ala Phe Leu Tyr Arg
            100                 105                 110

Phe Gln Ile Trp Arg Pro Ile Thr Ala Thr Phe Tyr Phe Pro Val Gly
        115                 120                 125

Pro Gly Thr Gly Phe Leu Tyr Leu Val Asn Leu Tyr Phe Leu Tyr Gln
        130                 135                 140

Tyr Ser Thr Arg Leu Glu Thr Gly Ala Phe Asp Gly Arg Pro Ala Asp
145                 150                 155                 160

Tyr Leu Phe Met Leu Leu Phe Asn Trp Ile Cys Ile Val Ile Thr Gly
                165                 170                 175

Leu Ala Met Asp Met Gln Leu Leu Met Ile Pro Leu Ile Met Ser Val
            180                 185                 190
```

```
Leu Tyr Val Trp Ala Gln Leu Asn Arg Asp Met Ile Val Ser Phe Trp
        195                 200                 205

Phe Gly Thr Arg Phe Lys Ala Cys Tyr Leu Pro Trp Val Ile Leu Gly
    210                 215                 220

Phe Asn Tyr Ile Ile Gly Gly Ser Val Ile Asn Glu Leu Ile Gly Asn
225                 230                 235                 240

Leu Val Gly His Leu Tyr Phe Phe Leu Met Phe Arg Tyr Pro Met Asp
                245                 250                 255

Leu Gly Gly Arg Asn Phe Leu Ser Thr Pro Gln Phe Leu Tyr Arg Trp
            260                 265                 270

Leu Pro Ser Arg Arg Gly Gly Val Ser Gly Phe Gly Val Pro Pro Ala
        275                 280                 285

Ser Met Arg Arg Ala Ala Asp Gln Asn Gly Gly Xaa Gly Arg His Asn
    290                 295                 300

Trp Gly Gln Gly Phe Arg Leu Gly Asp Gln
305                 310
```

```
<210> 967
<211> 181
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 967
Thr Ser Ser Asp Thr Leu Thr Val Leu Ser Arg Ala Arg Leu Gly Ser
  1             5                 10                  15

Leu Leu Trp Gln Asn Leu Gly Ser Gln Glu Val Leu Val Pro Gly Asn
                20                  25                  30

Ser Cys Phe Ser Gly Ala Gly Leu Tyr Ser Leu Gln Pro Leu Ala Leu
        35                  40                  45
```

```
Pro Ser Trp Asn Gln Gly Gln Arg Leu Ser Pro Thr Leu Val Ser Ile
    50                  55                  60

Phe Gln Lys Thr Gly Asn Ala Val Arg Ala Ile Gly Arg Leu Ser Ser
    65                  70                  75                  80

Met Ala Met Ile Ser Gly Leu Ser Gly Arg Lys Ser Ser Thr Gly Ser
                    85                  90                  95

Pro Thr Ser Pro Leu Asn Ala Glu Lys Leu Glu Ser Glu Glu Asp Val
                100                 105                 110

Ser Gln Ala Phe Leu Glu Ala Val Ala Glu Glu Lys Pro His Val Lys
            115                 120                 125

Pro Tyr Phe Ser Lys Thr Ile Arg Asp Leu Glu Val Val Glu Gly Ser
        130                 135                 140

Ala Ala Arg Phe Asp Cys Lys Ile Glu Gly Tyr Pro Asp Pro Glu Val
145                 150                 155                 160

Val Trp Xaa Gln Arg Trp Thr Ser Ser Ile Arg Glu Ser Arg Xaa Phe
                165                 170                 175

Pro Asp Arg Leu Arg
            180
```

```
<210> 968
<211> 291
<212> PRT
<213> Homo sapiens

<400> 968
His Gly Ala Gly Glu Ser Glu Pro Ser Ser Arg Val Pro Arg Arg Ala
  1               5                  10                  15

Ala Ser Pro Gly His Val Pro Arg Leu Arg Gly Thr Arg Pro Glu Leu
                20                  25                  30

Arg Glu Arg Arg Arg Val Arg Arg Pro Arg Ala Pro Pro Ala Ala Ala
            35                  40                  45

Gln Ala Ala Gln Gln Lys Phe His Leu Val Pro Ser Ile Asn Thr Met
    50                  55                  60

Ser Gly Ser Gln Glu Leu Gln Trp Met Val Gln Pro His Phe Leu Gly
    65                  70                  75                  80

Pro Ser Ser Tyr Pro Arg Pro Leu Thr Tyr Pro Gln Tyr Ser Pro Pro
```

```
                    85                      90                      95

    Gln Pro Arg Pro Gly Val Ile Arg Ala Leu Gly Pro Pro Pro Gly Val
                100             105             110

    Arg Arg Arg Pro Cys Glu Gln Ile Ser Pro Glu Glu Glu Glu Arg Arg
                115             120             125

    Arg Val Arg Arg Glu Arg Asn Lys Leu Ala Ala Ala Lys Cys Arg Asn
                130             135             140

    Arg Arg Lys Glu Leu Thr Asp Phe Leu Gln Ala Glu Thr Asp Lys Leu
    145             150             155             160

    Glu Asp Glu Lys Ser Gly Leu Gln Arg Glu Ile Glu Glu Leu Gln Lys
                165             170             175

    Gln Lys Glu Arg Leu Glu Leu Val Leu Glu Ala His Arg Pro Ile Cys
                180             185             190

    Lys Ile Pro Glu Gly Ala Lys Glu Gly Asp Thr Gly Ser Thr Ser Gly
                195             200             205

    Thr Ser Ser Pro Pro Ala Pro Cys Arg Pro Val Pro Cys Ile Ser Leu
    210             215             220

    Ser Pro Gly Pro Val Leu Glu Pro Glu Ala Leu His Thr Pro Thr Leu
    225             230             235             240

    Met Thr Thr Pro Ser Leu Thr Pro Phe Thr Pro Ser Leu Val Phe Thr
                245             250             255

    Tyr Pro Ser Thr Pro Glu Pro Cys Ala Ser Ala His Arg Lys Ser Ser
                260             265             270

    Ser Ser Ser Gly Asp Pro Ser Ser Asp Pro Leu Gly Ser Pro Thr Leu
                275             280             285

    Leu Ala Leu
        290
```

```
<210> 969
<211> 313
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
```

```
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (312)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (313)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 969
Glu Glu Glu Lys Lys Asp Ser Gly Val Ala Ser Thr Glu Asp Ser Ser
 1               5                  10                      15

Ser Ser His Ile Thr Ala Ala Ala Ile Ala Ala Lys Lys His Pro Phe
            20                  25                  30

Tyr Thr Xaa Pro Ala Val Val Met Ala His Gly Glu Gln Pro Ile Pro
            35                  40                  45

Gly Leu Ile Asn Tyr Ser His His Ser Thr Asp Glu Arg Xaa Pro Asp
        50                  55                  60

Ser Ile Ile Ser Arg Gly Val Gln Val Leu Pro Arg Asp Thr Ala Ser
 65                  70                  75                      80

Leu Ser Thr Thr Pro Ser Glu Ser Pro Arg Ala Gln Ala Thr Ser Arg
                85                  90                      95

Leu Ser Thr Ala Ser Cys Pro Thr Pro Lys Val Gln Ser Arg Cys Ser
            100                 105                 110

Ser Lys Glu Asn Ile Leu Arg Ala Xaa His Ser Ala Val Asp Ile Thr
        115                 120                 125
```

```
Lys Val Ala Arg Arg His Arg Met Xaa Pro Phe Pro Leu Thr Ser Met
    130                 135             140

Asp Lys Ala Phe Ile Thr Val Leu Glu Met Thr Pro Val Leu Gly Thr
145             150                 155                 160

Glu Ile Ile Asn Tyr Arg Asp Gly Met Gly Arg Val Leu Ala Gln Asp
                165                 170                 175

Val Tyr Ala Lys Asp Asn Leu Pro Pro Phe Pro Ala Ser Val Lys Asp
            180                 185                 190

Gly Tyr Ala Val Arg Ala Ala Asp Gly Pro Gly Asp Arg Phe Ile Ile
        195                 200                 205

Gly Glu Ser Gln Ala Gly Glu Gln Pro Thr Gln Thr Val Met Pro Gly
    210                 215                 220

Gln Val Met Arg Val Thr Thr Gly Ala Pro Ile Pro Cys Gly Ala Asp
225             230                 235                 240

Ala Val Val Gln Val Glu Asp Thr Glu Leu Ile Arg Glu Ser Asp Asp
                245                 250                 255

Gly Thr Glu Glu Leu Glu Val Arg Ile Leu Val Gln Ala Arg Pro Gly
            260                 265                 270

Gln Asp Ile Arg Pro Ile Gly His Asp Ile Lys Arg Gly Glu Cys Val
            275                 280                 285

Leu Ala Lys Gly Thr His Met Gly Pro Ser Glu Ile Gly Leu Leu Ala
    290                 295                 300

Thr Val Gly Val Thr Glu Val Xaa Xaa
305                 310
```

```
<210> 970
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 970
His Met Lys Lys Gln Leu Leu Val Pro Asp Tyr Gly His Phe His Val
```

```
         1                 5                      10                         15

        Xaa Glu Phe Leu Lys Leu Ser Leu Leu Arg Met Val Leu Leu Pro Ala
                         20                      25                     30

        Asp Ser Tyr Leu Phe Val Phe Ser Ser Phe
                     35                      40
```

<210> 971
<211> 67
<212> PRT
<213> Homo sapiens

<400> 971

```
        Gln Lys Asp Arg Glu Ile Arg Ile Phe Cys Ala Glu Ser Pro Lys Phe
         1                 5                      10                         15

        Pro Pro Glu Cys Asn Leu Gln Leu Pro Tyr Leu Leu Ser His Met Pro
                         20                      25                     30

        Ser Asn Met Leu Asp Trp Leu Ile His Arg Pro Thr Gln Asn Thr Asn
                     35                      40                         45

        Val Thr Cys Ser Cys Ser Leu Val Ala Ile Cys Leu Phe Ser Met Tyr
                 50                      55                     60

        Pro Ala Trp
         65
```

<210> 972
<211> 54
<212> PRT
<213> Homo sapiens

<400> 972

```
        Ile Val Phe Phe Phe Ser Leu Phe Tyr Lys Cys Gln Phe Asn Ser Arg
         1                 5                      10                         15

        Ala Leu Ala Gln Tyr Phe Leu Met Ile Phe Ser Pro Arg Lys Arg Arg
                         20                      25                     30

        Lys Ser Leu Leu Val Thr Gln Leu Arg Cys Gln Thr Ser Ser Glu Thr
                     35                      40                         45

        Cys Thr Val Ala Ala Tyr
                 50
```

```
<210> 973
<211> 102
<212> PRT
<213> Homo sapiens

<400> 973
Val Val Leu Phe Glu His Lys Leu His Phe Tyr Phe Leu Met Gln Arg
 1               5                  10                  15

Met Asn Lys Leu Asn Thr Cys Phe Glu Asp Arg Ser Arg Cys Ser Val
                20                  25                  30

Trp His His Val Ile Ile Cys Leu Phe Tyr Asn Ile His Val Ser Leu
            35                  40                  45

Arg Asn His Gly Arg Asp Val Arg Ala Glu Tyr Thr Gln Gln Met Leu
        50                  55                  60

Lys Glu Lys Glu Gly Ser Val Leu Gln Lys Lys Lys Lys Arg Thr Asn
 65                  70                  75                  80

Arg Ile Leu Thr Leu Leu Thr Phe Pro Asn Phe Pro Met Leu Leu Val
                85                  90                  95

Asn Ile Ile Ile Val Ser
                100


<210> 974
<211> 365
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (297)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (316)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (321)
<223> Xaa equals any of the naturally occurring L-amino acids
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```
<220>
<221> SITE
<222> (335)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (347)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (363)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 974
Gly Met Lys Thr Asn Gly Gly Arg Cys Arg Val Arg Ala Leu Cys Trp
 1               5               10              15

Ser Arg Arg Glu Trp Arg Gly Ala Gly Met Ala Gln Lys Lys Tyr Leu
             20              25              30

Gln Ala Lys Leu Thr Gln Phe Leu Arg Glu Asp Arg Ile Gln Leu Trp
         35              40              45

Lys Pro Pro Tyr Thr Asp Glu Asn Lys Lys Val Gly Leu Ala Leu Lys
     50              55              60

Asp Leu Ala Lys Gln Tyr Ser Asp Arg Leu Glu Cys Cys Glu Asn Glu
 65              70              75              80

Val Glu Lys Val Ile Glu Glu Ile Arg Cys Lys Ala Ile Glu Arg Gly
             85              90              95

Thr Gly Asn Asp Asn Tyr Arg Thr Thr Gly Ile Ala Thr Ile Glu Val
             100             105             110

Phe Leu Pro Pro Arg Leu Lys Lys Asp Arg Lys Asn Leu Leu Glu Thr
         115             120             125

Arg Leu His Ile Thr Gly Arg Glu Leu Arg Ser Lys Ile Ala Glu Thr
     130             135             140

Phe Gly Leu Gln Glu Asn Tyr Ile Lys Ile Val Ile Asn Lys Lys Gln
145             150             155             160

Leu Gln Leu Gly Lys Thr Leu Glu Glu Gln Gly Val Ala His Asn Val
             165             170             175

Lys Ala Met Val Leu Glu Leu Lys Gln Ser Glu Glu Asp Ala Arg Lys
             180             185             190
```

Asn Phe Gln Leu Glu Glu Glu Glu Gln Asn Glu Ala Lys Leu Lys Glu
        195   200   205

Lys Gln Ile Gln Arg Thr Lys Arg Gly Leu Glu Ile Leu Ala Lys Arg
        210   215   220

Ala Ala Glu Thr Val Val Asp Pro Glu Met Thr Pro Tyr Leu Asp Ile
225   230   235   240

Ala Asn Gln Thr Gly Arg Ser Ile Arg Ile Pro Pro Ser Glu Arg Lys
            245   250   255

Ala Leu Met Leu Ala Met Gly Tyr His Glu Lys Gly Arg Ala Phe Leu
            260   265   270

Lys Arg Lys Glu Tyr Gly Ile Ala Leu Pro Cys Leu Leu Asp Ala Asp
        275   280   285

Lys Tyr Phe Cys Glu Cys Cys Arg Xaa Leu Leu Asp Thr Val Asp Asn
    290   295   300

Tyr Ala Val Leu Gln Leu Asp Ile Val Trp Cys Xaa Phe Arg Leu Glu
305   310   315   320

Xaa Leu Glu Cys Leu Asp Asp Ala Glu Lys Lys Leu Asn Leu Xaa Gln
            325   330   335

Lys Cys Phe Lys Asn Cys Tyr Gly Glu Asn Xaa Gln Arg Leu Val His
            340   345   350

Ile Lys Val Cys Ser Trp Glu Phe Ile Leu Xaa Ala Arg
    355   360   365

<210> 975
<211> 146
<212> PRT
<213> Homo sapiens

<400> 975
Arg Gly Cys Lys Arg Glu Gly Leu Ala Met Ser Ser Leu Ile Arg Arg
    1   5   10   15

Val Ile Ser Thr Ala Lys Ala Pro Gly Ala Ile Gly Pro Tyr Ser Gln
            20   25   30

Ala Val Leu Val Asp Arg Thr Ile Tyr Ile Ser Gly Gln Ile Gly Met
        35   40   45

```
Asp Pro Ser Ser Gly Gln Leu Val Ser Gly Gly Val Ala Glu Glu Ala
    50              55              60

Lys Gln Ala Leu Lys Asn Met Gly Glu Ile Leu Lys Ala Ala Gly Cys
65              70              75              80

Asp Phe Thr Asn Val Val Lys Thr Thr Val Leu Leu Ala Asp Ile Asn
            85              90              95

Asp Phe Asn Thr Val Asn Glu Ile Tyr Lys Gln Tyr Phe Lys Ser Asn
            100             105             110

Phe Pro Ala Arg Ala Ala Tyr Gln Val Ala Ala Leu Pro Lys Gly Ser
        115             120             125

Arg Ile Glu Ile Glu Ala Val Ala Ile Gln Gly Pro Leu Thr Thr Ala
    130             135             140

Ser Leu
145
```

<210> 976
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 976

```
Ser Ser Glu Leu Leu Leu His Ser Phe Leu Gly Ser Val Ser Ser Gln
 1               5                   10                  15

Asn His Arg Tyr Pro Xaa Xaa Ser Gln Thr Thr Ala Leu Gly Glu Gly
            20                  25                  30

Thr Ile Arg Phe Thr Xaa Gly Phe His Thr Leu Met Leu Leu Ala Phe
            35                  40                  45

Asn Leu Thr Thr Leu Asp Cys Gln Val Phe Thr Asp Xaa Trp Thr Trp
        50                  55                  60

Ile Gln Asp Trp Glu Cys Xaa Gly Met Val Trp Gln Gln Cys Leu Leu
 65                 70                  75                  80
```

<210> 977
<211> 59
<212> PRT
<213> Homo sapiens

<400> 977

```
Thr Asp Asp Glu Phe Ser Gln Met Thr Leu Arg Asn Cys Phe Thr Lys
 1               5                   10                  15

Asn Lys Val Ile Tyr Leu Leu Trp Glu Glu Leu Pro Ser Phe Cys Phe
            20                  25                  30

Ser Ser Leu Pro Pro Phe Pro Cys Gly Cys Arg Ala Arg Ser Val Arg
            35                  40                  45

Ser Trp Phe Cys Pro Ala Met Ile Arg Glu Ser
        50                  55
```

<210> 978
<211> 203
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 978
```
Leu Trp Glu Leu Lys Lys Leu Ser Val His Phe His Pro Ser Val Ala
 1               5                   10                  15

Leu Phe Ala Lys Thr Ile Leu Gln Gly Asn Tyr Ile Gln Tyr Ser Gly
            20                  25                  30

Asp Pro Leu Gln Asp Phe Thr Leu Met Arg Phe Leu Asp Arg Phe Val
        35                  40                  45

Tyr Arg Asn Pro Lys Pro His Lys Gly Lys Glu Asn Thr Asp Ser Val
    50                  55                  60

Val Met Gln Pro Lys Arg Lys His Phe Ile Lys Asp Ile Arg His Leu
65                  70                  75                  80

Pro Val Asn Ser Lys Glu Phe Leu Ala Lys Glu Glu Ser Gln Ile Pro
                85                  90                  95

Val Asp Glu Val Phe Phe His Arg Tyr Tyr Lys Lys Val Ala Val Lys
            100                 105                 110

Glu Lys Gln Lys Arg Asp Ala Asp Glu Glu Ser Ile Glu Asp Val Asp
        115                 120                 125

Asp Glu Glu Phe Glu Glu Leu Ile Asp Thr Phe Glu Asp Asp Asn Cys
    130                 135                 140

Phe Ser Ser Gly Lys Asp Asp Met Asp Phe Ala Gly Asn Val Lys Lys
145                 150                 155                 160

Arg Thr Lys Gly Ala Lys Asp Asn Thr Leu Asp Glu Asp Ser Glu Gly
            165                 170                 175

Ser Asp Asp Glu Leu Gly Asn Leu Asp Asp Asp Xaa Ser Phe Phe Arg
        180                 185                 190

Glu Val Trp Met Met Glu Glu Phe Ala Gly Ser
    195                 200
```

<210> 979
<211> 141
<212> PRT
<213> Homo sapiens

<400> 979
```
Ala Ala Gly Phe Gly Asp Phe Cys Leu Ile Ala Met Ser Gly Arg Gly
```

```
      1                    5                        10                        15
    Lys Gln Gly Gly Lys Ala Arg Ala Lys Ala Lys Ser Arg Ser Ser Arg
                20              25              30

    Ala Gly Leu Gln Phe Pro Val Gly Arg Val His Arg Leu Leu Arg Lys
                35              40              45

    Gly Asn Tyr Ala Glu Arg Val Gly Ala Gly Ala Pro Val Tyr Leu Ala
        50              55              60

    Ala Val Leu Glu Tyr Leu Thr Ala Glu Ile Leu Glu Leu Ala Gly Asn
    65              70              75              80

    Ala Ala Arg Asp Asn Lys Lys Thr Arg Ile Ile Pro Arg His Leu Gln
                85              90              95

    Leu Ala Ile Arg Asn Asp Glu Glu Leu Asn Lys Leu Leu Gly Arg Val
                100             105             110

    Thr Ile Ala Gln Gly Gly Val Leu Pro Asn Ile Gln Ala Val Leu Leu
                115             120             125

    Pro Lys Lys Thr Glu Ser His His Lys Ala Lys Gly Lys
        130             135             140
```

`<210> 980`
`<211> 111`
`<212> PRT`
`<213> Homo sapiens`

`<220>`
`<221> SITE`
`<222> (35)`
`<223> Xaa equals any of the naturally occurring L-amino acids`

`<400> 980`
```
    Gly Glu Leu Ser Phe Phe Gly Arg His Pro Asp Val Pro Arg Glu Ala
     1               5                   10                  15

    Ala Gly Ala His Gly Asp Arg His Ala Ser Pro Trp Ala Phe Phe Leu
                20              25              30

    Glu Arg Xaa Lys Ala Pro Arg Leu Thr Thr Arg Ser His Arg Leu Leu
        35              40              45

    Ser Asp Val Phe Ala Ala Ser Trp Thr Pro His Arg Met Leu Thr Thr
        50              55              60
```

```
Lys Thr Leu Gln Pro Trp Val Ala Arg Leu Asp Glu Met Glu Arg Gly
65              70              75              80

Leu Phe Gln Thr Gly Gln Lys Gly Leu Asn Asp Phe Gln Cys Trp Glu
                85              90              95

Lys Gly Gln Ala Ser Gln Ile Thr Ala Ser Asn Leu Val Gln Asn
                100             105             110
```

<210> 981
<211> 167
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (162)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 981

```
Trp Arg Met Gly Phe Ser Arg Val Leu Cys Phe Thr Asn Ser Arg Glu
 1               5               10              15

Asn Ser His Arg Leu Phe Leu Leu Val Gln Ala Phe Gly Gly Val Asp
                20              25              30

Val Ala Glu Phe Ser Ser Arg Tyr Gly Pro Gly Gln Arg Arg Met Ile
                35              40              45

Leu Lys Gln Phe Glu Gln Gly Lys Ile Gln Leu Leu Ile Ser Thr Asp
        50              55              60

Ala Thr Ala Arg Gly Xaa Asp Val Gln Gly Val Glu Leu Val Val Asn
65              70              75              80

Tyr Asp Ala Pro Gln Tyr Leu Arg Thr Tyr Val His Arg Val Gly Arg
                85              90              95

Thr Ala Arg Ala Gly Lys Thr Gly Gln Ala Phe Thr Leu Leu Leu Lys
                100             105             110

Val Gln Glu Arg Arg Phe Leu Arg Met Leu Thr Glu Ala Gly Ala Pro
                115             120             125
```

Glu Leu Gln Arg His Glu Leu Ser Ser Lys Leu Leu Gln Pro Leu Val
        130   135   140

Pro Arg Tyr Glu Glu Ala Leu Ser Gln Leu Glu Glu Ser Val Lys Glu
        145   150   155   160

Glu Xaa Lys Gln Arg Ala Ala
                165

<210> 982
<211> 108
<212> PRT
<213> Homo sapiens

<400> 982
Ala Asn Glu Pro Gln Phe Leu Ala Val Tyr Lys Lys Ser Leu Asn Ala
  1   5   10   15

Asn Glu Glu Phe Lys Gly Leu Phe Lys Glu Met Lys Gly Phe Pro Asn
                20   25   30

Arg Met Ile Tyr Ser Glu Glu Thr Asn Asn Gly Ile Ser Glu Thr His
        35   40   45

Asn Leu Lys Pro Asn Leu Glu Asn Met Leu Cys Thr Lys Thr Thr Ala
        50   55   60

Ser Ala Ser Ser Leu Ile Leu Thr Phe Phe Asn Arg Tyr Leu Leu Asn
 65   70   75   80

Cys Pro Val Lys Arg Cys His Asn Ala Gln Tyr Cys Lys Gln Gln Val
                85   90   95

Cys Ile His Glu Ala Phe Ile His Ser Gly Val Tyr
                100   105

<210> 983
<211> 150
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 983

```
Phe Ser Leu Ser Leu Ser Met Thr Pro Gln Leu Leu Leu Ala Leu Val
 1               5                  10                  15

Leu Trp Ala Ser Cys Pro Pro Cys Ser Gly Arg Lys Gly Pro Pro Ala
              20              25              30

Ala Leu Thr Leu Pro Arg Val Gln Cys Arg Ala Ser Arg Tyr Pro Ile
          35              40              45

Ala Val Asp Cys Ser Trp Thr Leu Pro Pro Ala Pro Asn Ser Thr Ser
      50              55              60

Pro Val Ser Phe Ile Ala Thr Tyr Arg Leu Gly Met Ala Ala Arg Gly
 65              70              75              80

His Ser Trp Pro Cys Leu Gln Gln Thr Pro Thr Ser Thr Ser Cys Thr
              85              90              95

Ile Thr Asp Val Gln Leu Phe Ser Met Ala Pro Tyr Val Leu Asn Val
          100             105             110

Thr Ala Val His Pro Trp Gly Ser Ser Ser Ser Phe Val Pro Phe Ile
          115             120             125

Thr Glu His Ile Ile Lys Pro Asp Pro Pro Glu Gly Val Arg Leu Ser
      130             135             140

Pro Leu Ala Glu Arg Xaa
145                 150


<210> 984
<211> 158
<212> PRT
<213> Homo sapiens

<400> 984
Arg Leu Cys Trp Val Lys Thr Leu Gln His Leu Leu Leu Arg Ser Thr
 1               5                  10                  15

His Lys Asp Gln Val Gln His Arg Gly Leu Gly Thr Ser Leu Ala Ser
              20              25              30

Gly Pro His Leu Thr Val Arg Gln Gln Leu Pro Ser Pro Ala Met Cys
          35              40              45

Leu Leu Ser Gly Ser Ser Cys Leu Lys Leu Thr Ser Thr Phe Phe Pro
      50              55              60

Asp Gly Gln Val Ala Glu Gly Pro Ala Ile Ser Val Ala Cys Cys His
```

```
        65                      70                      75                      80
    Pro Val Pro Pro Leu Ala Ser Leu Ser Phe Ala Gln Lys Thr Asn Asn
                    85                      90                      95
    His Thr Tyr Pro Asn Trp Asp Thr Thr Leu Gln Asn Ala Asp Asp Pro
                    100                     105                     110
    Phe Trp Arg Lys Leu Ser Leu Glu Leu Ser Glu Leu Pro Gly Lys Gln
            115                     120                     125
    Gly Ile Trp Pro Thr Ser Leu Thr Thr Ala Ala Pro Thr Ser Pro Arg
            130                     135                     140
    Thr Gly Ala Ser Ala Leu Thr Glu Val Gly Arg Pro Lys Thr
    145                     150                     155
```

```
<210> 985
<211> 40
<212> PRT
<213> Homo sapiens

<400> 985
Arg Trp Gly Cys Pro Gly Trp Ser Gln Thr Pro Glu Leu Lys Gln Cys
1               5                   10                      15

Ala Arg Leu Gly Phe Pro Lys Cys Trp Asp Tyr Arg Arg Lys Pro Leu
            20                      25                      30

His Ala Ala Tyr Pro Leu Pro Phe
            35                      40
```

```
<210> 986
<211> 63
<212> PRT
<213> Homo sapiens

<400> 986
Val Phe Gly Ser Phe Ser Cys Ile His Ser Pro Ser Cys His Leu Val
1               5                   10                      15

Lys Lys Val Pro Trp Phe Pro Phe Thr Phe Asn His Asp Cys Lys Phe
            20                      25                      30

Pro Glu Ala Pro Pro Ala Met Gly Asp Cys Glu Ser Ile Lys Pro Leu
            35                      40                      45
```

```
Ser Phe Ile Asn Tyr Pro Val Ser Gly Ser Phe Leu Ile Ala Val
    50                  55                  60


<210> 987
<211> 90
<212> PRT
<213> Homo sapiens

<400> 987
His His Arg Ile Asn Cys Val His Leu Tyr His Cys Phe Thr Ser Leu
 1               5                  10                  15

Trp Trp Ile Tyr Met Ala Lys Leu Cys Glu Glu Ile Gly Lys Lys Lys
                20                  25                  30

Leu Pro Leu Thr Lys Asp Met Arg Glu Gln Gly Val Lys Ser Asn Pro
            35                  40                  45

Cys Asp Ser Ser Leu Ser His Thr Asp Arg Trp Tyr Leu Pro Val Ser
    50                  55                  60

Ser Thr Leu Phe Ser Leu Phe Lys Ile Leu Phe His Ala Ser Arg Phe
 65                  70                  75                  80

Ile Phe Val Leu Ser Thr Ser Leu Phe Leu
                85                  90


<210> 988
<211> 50
<212> PRT
<213> Homo sapiens

<400> 988
Ala Gln Glu Glu Lys Lys Pro Tyr Leu Cys Ser Arg Phe Cys Lys Gly
 1               5                  10                  15

Glu Ile Ser Thr Glu Arg Asn His Cys Tyr Thr Ser Ala Lys Thr Gln
                20                  25                  30

Gly Leu Gly Asp Leu Phe Leu Phe Ile Cys Phe Gly Tyr Leu Ala Ser
            35                  40                  45

Phe Ser
    50
```

```
<210> 989
<211> 92
<212> PRT
<213> Homo sapiens

<400> 989
Arg Met Lys Arg Ser Arg Arg Trp Ser Arg Tyr Lys Ala Leu Asn Ala
1               5                   10                  15

Gly Arg Thr Ser Lys Arg Ile His Lys Gly Leu Val Val Arg Lys Gly
                20                  25                  30

Trp Leu Gly Lys Leu Pro Ser Leu Pro Leu Arg Trp Arg Ala Arg Gly
            35                  40                  45

Val Met Thr Leu Met Phe Ile Leu Leu Ala Ala Met Leu Trp Phe Val
        50                  55                  60

Ala Ala Pro Val Val Thr Tyr Ile Leu Cys Ala Leu Val Val Leu Leu
65                  70                  75                  80

Ala Ala Pro Val Leu Asn Gly Arg Leu Tyr Ala Arg
                85                  90
```

```
<210> 990
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 990
Ser Gly Leu Ile Pro Phe Pro Phe Gln Arg Ile Ala Lys Lys Lys Leu
1               5                   10                  15

Thr Val Glu Ala Gly Cys Ser Glu Val Gly Cys Gly Val Gly Gly Thr
                20                  25                  30

Xaa Gly Xaa Ala Leu Trp Ala Gly Ala Gly Gly Phe Glu Gly Leu Ser
            35                  40                  45
```

```
Ser Thr Arg Ala Gln Arg Ser Cys Gln Trp Pro Val Ala Leu Pro Pro
    50                  55                  60

Phe Pro Glu Arg Gly Ser Arg Gly His Pro Gly Arg Leu Gly Pro Gly
65              70                  75                  80

Pro Pro Ser Ala Leu Ala Ser
                85
```

<210> 991
<211> 184
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 991
```
Phe Ala Thr Asp Arg Phe Phe Lys Cys Trp His Asn Ala Gln Ser Ser
  1           5               10                  15

Met Arg Glu Gln Pro Ile Phe Thr Thr Arg Ala His Val Phe Gln Ile
                20                  25                  30

Asp Pro Asn Thr Lys Lys Asn Trp Met Pro Ala Ser Lys Xaa Ala Val
            35                  40                  45

Thr Val Ser Tyr Phe Tyr Asp Val Thr Arg Asn Ser Tyr Arg Ile Ile
    50                  55                  60

Ser Val Asp Gly Ala Lys Val Ile Ile Asn Ser Thr Ile Thr Pro Asn
65                  70                  75                  80

Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser
                85                  90                  95

Arg Ala Asn Thr Val Phe Gly Leu Gly Phe Ser Ser Glu Gln Gln Leu
                100                 105                 110

Thr Lys Phe Ala Glu Lys Phe Gln Glu Val Lys Glu Ala Ala Lys Ile
            115                 120                 125
```

```
Ala Lys Asp Lys Thr Gln Glu Lys Ile Glu Thr Ser Ser Asn His Ser
    130             135             140

Gln Ala Ser Ser Val Asn Xaa Thr Asp Asp Glu Lys Ala Ser His Ala
145             150             155             160

Gly Pro Ala Asn Thr His Leu Lys Ser Glu Asn Asp Lys Leu Lys Ile
            165             170             175

Ala Leu Thr Gln Ser Ala Pro Thr
            180
```

```
<210> 992
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 992
Pro Cys His Leu Gln His Glu Glu Ser Leu Ser Gly Val Lys Val Asn
  1             5               10              15

Glu Thr Asn Arg Asp Xaa Arg Pro Gly Glu Ile Leu Val Thr Leu Leu
            20              25              30

Glu Ser Cys Gln Ser Tyr Thr Gly Val Leu Leu Ile Gln Asn Asn Ser
        35              40              45

Asn Asn Pro Ser Val Ser Tyr Val Tyr Ala Asn Phe Asn Lys Lys Lys
    50              55              60

Leu Asp
 65
```

```
<210> 993
<211> 434
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 993

```
Ser Gly Pro Gly Val Gln Trp Val Gln Pro Ala Cys Xaa Leu Arg Pro
 1               5               10               15

Asp Arg Gly Ala Pro Thr Asp Gly Xaa Gly Gly Ala Leu Gln Ala Glu
            20               25               30

Thr Pro Ser Ser Ala Glu Ser Gln Glu Phe Trp Glu Val Lys Arg Lys
        35               40               45

Glu Lys Leu Ile Thr Asn Gly Thr Ile Phe Cys Phe Glu Met Glu Pro
    50               55               60

Ala Val Ser Glu Pro Met Arg Asp Gln Val Ala Arg Thr His Leu Thr
65               70               75               80

Glu Asp Thr Pro Lys Val Asn Ala Asp Ile Glu Lys Val Asn Xaa Asn
            85               90               95

Gln Ala Xaa Arg Cys Thr Val Ile Gly Gly Ser Gly Phe Leu Gly Gln
            100              105              110

His Met Val Glu Gln Leu Leu Ala Arg Gly Tyr Ala Val Asn Val Phe
        115              120              125

Asp Ile Gln Gln Gly Phe Asp Asn Pro Gln Val Arg Phe Phe Leu Gly
    130              135              140

Asp Leu Cys Ser Arg Gln Asp Leu Tyr Pro Ala Leu Lys Gly Val Asn
145              150              .5               160

Thr Val Phe His Cys Ala Ser Pro Pro Ser Ser Asn Asn Lys Glu
            165              170              175

Leu Phe Tyr Arg Val Asn Tyr Ile Gly Thr Lys Asn Val Ile Glu Thr
```

```
                    180                     185                     190

        Cys Lys Glu Ala Gly Val Gln Lys Leu Ile Leu Thr Ser Ser Ala Ser
                195                     200                     205

        Val Ile Phe Glu Gly Val Asp Ile Lys Asn Gly Thr Glu Asp Leu Pro
                210                     215                     220

        Tyr Ala Met Lys Pro Ile Asp Tyr Tyr Thr Glu Thr Lys Ile Leu Gln
        225                     230                     235                     240

        Glu Arg Ala Val Leu Gly Ala Asn Asp Pro Glu Lys Asn Phe Leu Thr
                        245                     250                     255

        Thr Ala Ile Arg Pro His Gly Ile Phe Gly Pro Arg Asp Pro Gln Leu
                        260                     265                     270

        Val Pro Ile Leu Ile Glu Ala Ala Arg Asn Gly Lys Met Lys Phe Val
                        275                     280                     285

        Ile Gly Asn Gly Lys Asn Leu Val Asp Phe Thr Phe Val Glu Asn Val
                290                     295                     300

        Val His Gly His Ile Leu Ala Ala Glu Gln Leu Ser Arg Asp Ser Thr
        305                     310                     315                     320

        Leu Gly Gly Lys Ala Phe His Ile Thr Asn Asp Glu Pro Ile Pro Phe
                        325                     330                     335

        Trp Thr Phe Leu Ser Arg Ile Leu Thr Gly Leu Asn Tyr Glu Ala Pro
                        340                     345                     350

        Lys Tyr His Ile Pro Tyr Trp Val Ala Tyr Tyr Leu Ala Leu Leu Leu
                        355                     360                     365

        Ser Leu Leu Val Met Val Ile Ser Pro Val Ile Gln Leu Gln Pro Thr
                370                     375                     380

        Phe Thr Pro Met Arg Val Ala Leu Ala Gly Thr Phe His Tyr Tyr Ser
        385                     390                     395                     400

        Cys Glu Arg Ala Lys Lys Ala Met Gly Tyr Gln Pro Leu Val Thr Met
                        405                     410                     415

        Asp Asp Ala Met Glu Arg Thr Val Gln Ser Phe Arg His Leu Arg Arg
                        420                     425                     430

        Val Lys
```

```
<210> 994
<211> 29
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 994
Met Leu His Gly Ile Thr Ser Phe Ile Leu Tyr Lys Ser Ile Met Cys
 1               5                  10                  15

Xaa Glu Leu Lys Thr Ser Leu Gly Asn Ile Asn Ser Ser
            20                  25




<210> 995
<211> 175
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 995
Arg Gly Leu Val Arg Gly Ala Met Val Gly Gly Met Gln Glu Arg Glu
 1               5                  10                  15

Pro Ala Leu Thr Val Lys Leu Arg Leu Phe Xaa Pro Gln Pro Ser Thr
            20                  25                  30
```

```
Pro Ala Gln Thr Gly Ser Trp Ala Leu Phe Cys Leu Ser Gln Pro His
        35              40              45

Ser Lys Pro Xaa Pro Pro Ala Pro Pro Tyr Cys Asn Ser Pro His Ser
    50              55              60

His Thr Arg Ser Pro Leu Pro Pro Thr Tyr Xaa Arg Xaa Phe Ser Pro
65              70              75              80

Leu Pro Ser Gln Leu Pro Ala Pro Ser Cys Phe Thr Lys Gly Glu Val
                85              90              95

Pro Gly His Leu Arg Val Ser Leu Cys Gly Ala Gln Asn Leu Gln Gly
            100             105             110

Pro Leu Ser Met Pro Leu Val Pro Trp Thr Val Ser Leu Val His Leu
        115             120             125

Leu Ser Pro Ser Ile Leu Ser Gln Ser Thr Asp Phe Ser His Ser Ala
    130             135             140

Val Ser Val Gln Pro Tyr Pro Arg Asp Leu Asp Ala Trp Pro Pro Asn
145             150             155             160

Leu Ala Leu Gly Tyr Pro Asp Ala Asn Gln Thr Pro Pro Ser Ser
            165             170             175


<210> 996
<211> 218
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (182)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 996

```
Thr Leu Ser His Gln Val Thr Gln Gln Met Asn Met Leu Ile Gly Val
 1               5                  10                  15

Glu Leu Gln Arg Leu Leu Val Cys Gln Val Phe Leu Phe Ile Gln Leu
                20                  25                  30

Asp Thr Met His Ala Gln Lys Leu Leu Xaa Lys Met Gly Gly Ser Ala
        35                  40                  45

Pro Pro Asp Ser Ser Trp Arg Gly Ser Leu Lys Val Pro Tyr Asn Val
        50                  55                  60

Gly Pro Gly Phe Thr Gly Asn Phe Ser Thr Gln Lys Val Lys Met His
 65                  70                  75                  80

Ile His Ser Thr Asn Glu Val Thr Arg Ile Tyr Asn Val Ile Gly Thr
                85                  90                  95

Leu Arg Gly Ala Val Glu Pro Asp Arg Tyr Val Ile Leu Gly Gly His
            100                 105                 110

Arg Asp Ser Trp Val Xaa Gly Gly Ile Asp Pro Gln Ser Gly Ala Ala
            115                 120                 125

Val Val His Glu Ile Val Arg Ser Phe Gly Thr Leu Lys Lys Glu Gly
    130                 135                 140

Trp Arg Pro Arg Arg Thr Ile Leu Phe Ala Ser Trp Asp Ala Glu Glu
145                 150                 155                 160

Phe Gly Leu Leu Gly Ser Thr Glu Trp Ala Glu Xaa Xaa Ser Arg Leu
                165                 170                 175

Leu Gln Glu Arg Gly Xaa Gly Phe Ile Leu Asn Ala Asp Ser Ser Ile
            180                 185                 190

Gly Arg Lys Leu His Ser Glu Glu Leu Asp Cys Thr Pro Leu Asp Val
            195                 200                 205

Gln Leu Gly Thr Gln Pro Tyr Gln Arg Ala
    210                 215
```

```
<210> 997
<211> 119
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 997
Gly Arg Arg Gln Pro Thr Pro Xaa Thr Ser Pro Glu Pro Pro Arg Ser
 1               5                  10                  15

Ser Pro Arg Gln Thr Pro Ala Pro Gly Pro Ala Arg Glu Lys Ser Ala
             20                  25                  30

Gly Lys Arg Gly Pro Asp Arg Gly Ser Pro Glu Tyr Arg Gln Arg Arg
         35                  40                  45

Glu Arg Asn Asn Ile Ala Val Arg Lys Ser Arg Asp Lys Ala Lys Arg
     50                  55                  60

Arg Asn Gln Glu Met Gln Gln Lys Leu Val Glu Leu Ser Ala Glu Asn
 65                  70                  75                  80

Glu Lys Leu His Gln Arg Val Glu Gln Leu Thr Arg Asp Leu Ala Gly
             85                  90                  95

Leu Arg Gln Phe Phe Lys Gln Leu Pro Ser Pro Pro Phe Leu Pro Ala
         100                 105                 110

Ala Gly Thr Ala Asp Cys Arg
         115


<210> 998
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
```

<210> 221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 998
```
Leu Val Asn Gly Ala Arg Lys Val Thr Gly Gln Arg Thr Gln Met Tyr
 1               5                  10                  15

Arg Xaa Asp Met Xaa Asn Asn Lys Asn Gly Val Asp Gln Glu Ile Ile
            20                  25                  30

Phe Pro Pro Ile Lys Thr Asp Val Ile Thr Met Asp Pro Lys Asp Asn
        35                  40                  45

Cys Ser Lys Asp Ala Asn Asp Thr Leu Leu Leu Gln Leu Thr Asn Thr
    50                  55                  60

Ser Ala Tyr Tyr Met Tyr Leu Leu Leu Leu Leu Lys Ser Val Val Tyr
65                  70                  75                  80

Phe Ala Ile Ile Thr Cys Cys Leu Leu Arg Arg Thr Ala Phe Cys Cys
                85                  90                  95

Asn Gly Glu Lys Ser
                100
```

<210> 999
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 999
```
Gly Thr Ser Ala Gly Val Asn Pro Tyr Lys Cys Ser Gln Cys Glu Lys
 1               5                  10                  15

Ser Phe Ser Gly Lys Leu Arg Leu Leu Val His Gln Arg Met His Thr
            20                  25                  30

Arg Glu Lys Pro Tyr Glu Cys Ser Glu Cys Gly Lys Ala Phe Ile Arg
            35                  40                  45

Asn Ser Gln Leu Ile Val His Gln Arg Thr His Ser Gly Glu Lys Pro
    50                  55                  60
```

```
Tyr Gly Xaa Gln
 65


<210> 1000
<211> 320
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1000
Arg Pro Cys Glu Arg Thr Val Arg Pro Arg His Ser Gly His Ser Gly
 1               5               10              15

Pro Asn Xaa Cys Cys Ser Cys Arg Cys Ser Ser Cys Thr Gly Glu Ala
            20              25              30

Ala Ile Ala Gly Arg Leu Arg Thr Ala Ala Ala Gly Ala Arg Thr Ala
            35              40              45

Gly Ala Ala Leu Arg His Leu Gly Ala Gly Gln Arg Glu Leu Gly Pro
    50              55              60

Arg Leu Glu Glu Thr Lys Trp Glu Val Cys Gln Lys Ser Gly Glu Ile
 65              70              75              80

Ser Leu Leu Lys Gln Gln Leu Lys Glu Ser Gln Ala Glu Leu Val Gln
            85              90              95

Lys Gly Ser Glu Leu Val Ala Leu Arg Val Ala Leu Arg Glu Ala Arg
            100             105             110

Ala Thr Leu Arg Val Ser Glu Gly Arg Ala Arg Gly Leu Gln Glu Ala
            115             120             125

Ala Arg Ala Arg Glu Leu Glu Leu Glu Ala Cys Ser Gln Glu Leu Gln
    130             135             140

Arg His Arg Gln Glu Ala Glu Gln Leu Arg Glu Lys Ala Gly Gln Leu
145             150             155             160

Asp Ala Glu Ala Ala Gly Leu Arg Glu Pro Pro Val Pro Pro Ala Thr
            165             170             175

Ala Asp Pro Phe Leu Leu Ala Glu Ser Asp Glu Ala Lys Val Gln Arg
            180             185             190
```

```
Ala Ala Ala Gly Val Gly Gly Ser Leu Arg Ala Gln Val Glu Arg Leu
        195             200             205

Arg Val Glu Leu Gln Arg Glu Arg Arg Arg Gly Glu Glu Gln Arg Asp
        210             215             220

Ser Phe Glu Gly Glu Arg Leu Ala Trp Gln Ala Glu Lys Glu Gln Val
225             230             235             240

Ile Arg Tyr Gln Lys Gln Leu Gln His Asn Tyr Ile Gln Met Tyr Arg
                245             250             255

Arg Asn Arg Gln Leu Glu Gln Glu Leu Gln Gln Leu Ser Leu Glu Leu
                260             265             270

Glu Ala Arg Glu Leu Ala Asp Leu Gly Leu Ala Glu Gln Pro Pro Ala
        275             280             285

Ser Ala Trp Arg Arg Ser Leu Leu Leu Arg Ser Arg Ala Leu Ser Asn
        290             295             300

Gln Leu Cys Arg Glu Leu Cys Gln Arg Gly Ser Ser Cys Arg Ser Thr
305             310             315             320
```

<210> 1001
<211> 70
<212> PRT
<213> Homo sapiens

<400> 1001

```
Gly Leu Cys Phe Leu Pro Trp Val Gly Phe Ser Ser Met His Val Gly
 1               5               10              15

Cys Phe Ser Leu Asn Leu Ile Val Cys Leu Val Cys Phe Pro Pro Phe
                20              25              30

Pro Phe Leu Phe Lys Leu Ile His Arg Thr Gln Lys Phe Thr Arg Tyr
        35              40              45

Glu His Leu Lys Lys Trp Asn Arg Glu Asn Gly Thr Ser His Val Ile
        50              55              60

Lys Ile Asn Ile Val Leu
 65              70
```

```
<210> 1002
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1002
Ile Phe Tyr Thr Ile Leu Gln Trp Asp Arg Asn Cys Leu Thr Pro Ala
 1               5                  10                  15


Gly Val Thr Pro His Glu Pro Gln Gly Ser Ser Val Pro Lys Xaa Lys
            20                  25                  30


Lys Gly Asn Arg Trp Pro Pro Pro Leu Pro His Ser Pro Gly Thr Gln
            35                  40                  45


Asp Cys Ser Leu Lys Val Phe Glu Pro Pro Ser Phe Pro Phe Leu Leu
        50                  55                  60


Gly Gly Gln Gly Xaa Leu Asn Ser Arg Ala Leu Pro Val Leu Pro
 65                 70                  75
```

```
<210> 1003
<211> 158
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1003
Ile Arg His Glu Gly Thr Leu Asn Gln Pro Leu Thr Lys Leu Asp Arg
 1               5                  10                  15


Ser Ser Glu Glu Pro Leu Gly Val Leu Val Asn Pro Asn Met Tyr Gln
            20                  25                  30
```

```
Ser Pro Pro Gln Trp Val Asp His Thr Gly Ala Ala Ser Gln Lys Lys
        35              40                  45

Ala Phe Arg Ser Ser Gly Phe Gly Leu Glu Phe Asn Ser Phe Gln His
        50              55                  60

Gln Leu Arg Ile Gln Asp Gln Glu Phe Gln Glu Gly Phe Asp Gly Gly
65                  70                  75                  80

Trp Cys Leu Ser Val His Gln Pro Trp Xaa Ser Leu Leu Val Arg Gly
                85                  90                  95

Ile Lys Arg Val Glu Gly Arg Ser Trp Tyr Thr Pro His Arg Gly Arg
                100             105             110

Leu Trp Ile Ala Ala Thr Ala Lys Lys Pro Ser Pro Gln Glu Val Ser
        115             120             125

Glu Leu Gln Ala Thr Tyr Arg Leu Leu Arg Gly Lys Asp Val Glu Phe
        130             135             140

Pro Asn Asp Tyr Pro Ser Val Val Phe Trp Ala Val Trp Thr
145             150             155
```

```
<210> 1004
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1004

Ala Gly Thr Leu Thr Pro Ala Tyr Cys Leu Lys Thr Ser Pro Thr Gly
 1   5   10   15

Xaa Phe Met Val Ser Tyr Pro Leu Pro His Ile Phe Leu Ala Thr Arg
                 20   25   30

Gln Glu Thr Tyr Leu Trp His Leu Gln Ile Ser Xaa Ile Xaa Phe Trp
             35   40   45

Xaa Phe Pro Cys Leu Ala Ile Cys Phe Ile Glu Trp Val Ser Glu Thr
     50   55   60

<210> 1005
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1005

Ser Ser Lys Phe Arg Ala Ile Asn Pro Ile Ser Val Ile Lys Ser Ser
 1   5   10   15

Thr Asp Asn Asn Glu Gln Leu Leu Lys Ser Asn Ile Leu Ser Leu Phe
                 20   25   30

Thr Asn Val Ser Leu Ser Ile Gly Thr Phe Leu Xaa Tyr Leu Phe Ala
             35   40   45

Cys His Tyr Asp Gln Lys Lys Gln Lys Ala Thr Gln Lys Gly Gln Pro
     50   55   60

His Ser Lys
 65

<210> 1006
<211> 223
<212> PRT
<213> Homo sapiens

```
<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1006
Leu Asp Lys Lys Arg Lys Lys Asp Met Leu Asn Ser Lys Thr Lys Thr
 1               5                  10                  15

Gln Tyr Phe His Gln Glu Lys Trp Ile Tyr Val His Lys Gly Ser Thr
                20                  25                  30

Xaa Glu Arg His Gly Tyr Cys Thr Leu Gly Xaa Ala Phe Asn Arg Leu
                35                  40                  45

Asp Phe Ser Thr Ala Ile Leu Asp Ser Arg Arg Phe Asn Tyr Val Val
        50                  55                  60

Arg Leu Leu Glu Leu Ile Ala Lys Ser Gln Leu Thr Ser Leu Ser Gly
65                  70                  75                  80

Ile Ala Gln Lys Asn Phe Met Asn Ile Leu Glu Lys Val Val Leu Lys
                85                  90                  95

Val Leu Glu Asp Gln Gln Asn Ile Arg Leu Ile Arg Glu Leu Leu Gln
                100                 105                 110

Thr Leu Tyr Thr Ser Leu Cys Thr Leu Val Gln Arg Val Gly Lys Ser
        115                 120                 125

Val Leu Val Gly Asn Ile Asn Met Trp Val Tyr Arg Met Glu Thr Ile
        130                 135                 140

Leu His Trp Gln Gln Gln Leu Asn Asn Ile Gln Ile Thr Arg Pro Ala
145                 150                 155                 160

Phe Lys Gly Leu Thr Phe Thr Asp Leu Pro Leu Cys Leu Gln Leu Asn
                165                 170                 175

Ile Met Gln Arg Leu Ser Asp Gly Arg Asp Leu Val Ser Leu Gly Gln
                180                 185                 190

Leu Pro Pro Thr Cys Thr Cys Ser Ala Lys Thr Gly Cys Cys Gly Arg
        195                 200                 205
```

Asn Ser Ala Ser Thr Thr Ser Pro Ser Gly Arg Ser Ala Asn Asp
    210   215   220

<210> 1007
<211> 152
<212> PRT
<213> Homo sapiens

<400> 1007
Phe Gly Thr Ser Phe Cys Trp Cys Tyr Phe Gln Phe Tyr Phe Gln Cys
  1   5   10   15

His Asn Arg Val Ile Phe Lys Gln Leu Leu Gln Ala Lys Ala Leu Gln
            20   25   30

Phe Leu Gln Ile Asp Ser Cys Arg Leu Gly Ser Val Asn Glu Asn Leu
        35   40   45

Ser Val Leu Leu Met Ala Lys Lys Phe Glu Ile Pro Val Cys Pro His
    50   55   60

Ala Gly Gly Val Gly Leu Cys Glu Leu Val Gln His Leu Ile Ile Phe
65   70   75   80

Asp Tyr Ile Ser Val Ser Ala Ser Leu Glu Asn Arg Val Cys Glu Tyr
            85   90   95

Val Asp His Leu His Glu His Phe Lys Tyr Pro Val Met Ile Gln Arg
        100   105   110

Ala Ser Tyr Met Pro Pro Lys Asp Pro Gly Tyr Ser Thr Glu Met Lys
        115   120   125

Glu Glu Ser Val Lys Lys His Gln Tyr Pro Asp Gly Glu Val Trp Lys
    130   135   140

Lys Leu Leu Pro Ala Gln Glu Asn
145   150

<210> 1008
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1008
```
Arg Glu Glu Ile Met Lys Gly Arg Glu Tyr Gln Glu Ala Gly Xaa Trp
 1               5                  10                 15

Gly Pro Ser Gln Arg Leu Pro Asn Thr Gly Tyr Ser Leu Ala Pro Asp
            20                 25                 30

Asp Ser Cys Ser Phe Gln Met Gln Asn Ala Pro Ser Gln Asp Leu Gln
            35                 40                 45

Lys Ser Tyr Pro Ile Ile Gly Leu Ala Gln Ser Ser Glu Pro Tyr His
        50                 55                 60

Leu Lys Phe Gln Val
    65
```


<210> 1009
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1009
```
Val Ile Val Asn Val Leu Asn Tyr Gln Leu Glu Gly Ile Phe Val Leu
 1               5                  10                 15

Lys Val Asp Ile Glu Glu Pro Lys Trp Met Met Gly Phe Gly Ala Ser
            20                 25                 30

Ser Glu Ser Met Phe Pro Leu Lys Tyr Phe Pro Lys Gln Trp Tyr Thr
            35                 40                 45

Trp Leu Phe Tyr Tyr Glu Ile Cys Ile Cys Xaa Val Phe Leu Cys Glu
        50                 55                 60

Gln Cys Phe Ser Leu Ser Val Thr Ile Cys Lys Gly Lys Ser Thr Asn
    65                 70                 75                 80

Ile Asp Tyr Ile Ala Gln Asn
                85
```

```
<210> 1010
<211> 164
<212> PRT
<213> Homo sapiens

<400> 1010
Asp His Pro Ala Glu Glu Leu Gly Gln Ser Ile Cys Ile Cys His Pro
 1               5                  10                  15

Arg Thr Leu Thr Met Lys Thr Leu Leu Leu Leu Ala Val Ile Met Ile
            20                  25                  30

Phe Gly Leu Leu Gln Ala His Gly Asn Leu Val Asn Phe His Arg Met
            35                  40                  45

Ile Lys Leu Thr Thr Gly Lys Glu Ala Ala Leu Ser Tyr Gly Phe Tyr
        50                  55                  60

Gly Cys His Cys Gly Val Gly Gly Arg Gly Ser Pro Lys Asp Ala Thr
65                  70                  75                  80

Asp Arg Cys Cys Val Thr His Asp Cys Cys Tyr Lys Arg Leu Glu Lys
                85                  90                  95

Arg Gly Cys Gly Thr Lys Phe Leu Ser Tyr Lys Phe Ser Asn Ser Gly
            100                 105                 110

Ser Arg Ile Thr Cys Ala Lys Gln Asp Ser Cys Arg Ser Gln Leu Cys
            115                 120                 125

Glu Cys Asp Lys Ala Ala Ala Thr Cys Phe Ala Arg Asn Lys Thr Thr
        130                 135                 140

Tyr Asn Lys Lys Tyr Gln Tyr Tyr Ser Asn Lys His Cys Arg Gly Ser
145                 150                 155                 160

Thr Pro Arg Cys
```

```
<210> 1011
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1011
Pro Thr Arg Pro Arg Arg Ala Ala Phe Pro Val Trp Val Pro Glu Arg
 1           5                  10                  15

Thr Ala Leu Leu Thr Cys Pro Leu Gly Ala Ala Pro Gly Ser Ser Arg
            20              25                  30

Glu Ala Pro Gly Ile Ala Gly Pro Pro Asn Ser Thr Ala Met Ser Lys
        35                  40                  45

Leu Gly Lys Phe Phe Lys Gly Gly Ser Ser Lys Ser Arg Ala Ala
    50              55                  60

Pro Ser Pro Gln Glu Ala Leu Val Arg Leu Arg Glu Thr Glu Glu Met
65              70                  75                  80

Leu Gly Lys Lys Gln Glu Tyr Leu Glu Asn Arg Ile Gln Arg Glu Ile
                85                  90                  95

Ala Leu Ala Lys Lys Xaa Gly Thr Gln Xaa Lys Arg Gly Ile Xaa Thr
            100                 105                 110

Lys
```

```
<210> 1012
<211> 79
<212> PRT
<213> Homo sapiens

<400> 1012
Leu Thr Asp Leu Pro Cys Asn Lys Ile Val Phe Cys Glu Lys Gln Glu
 1           5                  10                  15

Met Asn Asn Asn Ser Val Gly Thr Pro Leu Gln Ile Ser Gln Glu Ile
            20              25                  30

Gln Lys Asn Cys Glu Gln Val Ala Gly Phe Thr Ile Leu Gln Asp Thr
        35                  40                  45
```

```
Ala Ser Tyr Ser Lys Phe Leu Gln Asp Asn Asp Ala Gln Leu Phe Thr
     50              55              60

Tyr Leu Cys Leu Asn Ile Pro Ile Ser Leu Thr Phe Ile Leu Trp
 65              70              75
```

```
<210> 1013
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1013
Gln Asp Arg Glu Gly Phe Gly Ser Gly Gln Ala Gly Asp Gly Tyr Glu
 1               5               10              15

His Leu Ser Phe Glu Thr Cys Arg Gly Gly Asn Glu Gly Arg Gly Pro
             20              25              30

Cys Val Glu Val Phe Ile Gln Glu Ala Val Val Pro Leu Gly Leu Asn
             35              40              45

Ile Ala Ser Xaa Arg Gln
     50
```

```
<210> 1014
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1014
Ala Gly Asp Leu Arg Ala Gly Ser Thr Leu Lys Arg Phe Gly Phe Pro
```

```
     1                     5                        10                          15
  Arg Pro Gly Trp Gly Glu Arg Ala Gly Cys Pro Leu Asp Ser Pro Pro
              20                      25                      30

  Pro His Leu Met Ser Arg Pro Ser Ala Pro Trp Ser Xaa Ala Ile Met
              35                      40                      45

  Pro Pro Trp Xaa Gly Ala Lys Asp Ile Glu Gly Leu Leu Gly Ala Gly
              50                      55                      60

  Gly Gly Arg Asn Leu Val Ala His Ser Pro Leu Thr Ser His Pro Ala
   65                      70                      75                      80

  Ala Pro Thr Leu Met Pro Ala Val Asn Tyr Ala Pro Leu Asp Leu
                      85                      90                      95
```

<210> 1015
<211> 132
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1015
```
  Gln Lys Arg Ser Glu Asn Ile Lys Gln Val Glu Val Trp Ser Ile Leu
   1                   5                        10                          15

  Ser Lys Met Asn Ile Ser Gly Ser Ser Cys Gly Ser Pro Asn Ser Ala
              20                      25                      30

  Asp Thr Ser Ser Asp Phe Lys Asp Leu Trp Thr Lys Leu Lys Glu Cys
              35                      40                      45

  His Asp Arg Glu Val Gln Gly Leu Gln Val Lys Val Thr Lys Leu Lys
              50                      55                      60

  Gln Glu Arg Ile Leu Asp Ala Gln Arg Leu Glu Glu Phe Phe Thr Lys
   65                      70                      75                      80

  Asn Gln Gln Leu Arg Glu Gln Gln Lys Val Leu His Glu Thr Ile Lys
                      85                      90                      95

  Val Leu Glu Asp Arg Leu Arg Ala Gly Leu Cys Asp Arg Cys Ala Val
                      100                     105                     110
```

Thr Glu Glu His Met Arg Lys Lys Gln Gln Glu Phe Glu Asn Ile Pro
        115   120   125

Ala Ala Xaa Ser
     130

<210> 1016
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1016
Gly Gly Arg Phe Xaa Val His Arg Thr Pro Ile Thr His Pro Ala Ser
  1   5   10   15

Gln Val Glu Gly Leu Gln Val Arg Arg Cys Ile Pro Gln Gly Leu Met
                20   25   30

Leu Ser Ala Ile Phe Ile Pro Arg Gln Xaa Ser
            35   40

<210> 1017
<211> 188
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

```
<221>  SITE
<222>  (188)
<223>  Xaa equals any of the naturally occurring L-amino acids

<400>  1017
Cys Arg Ala Ser Phe Ala Gly Pro Ala Ala Leu Gln Asp Arg Asp Trp
  1           5               10              15

Gln Arg Thr Val Ile Ala Met Asn Gly Ile Glu Val Lys Leu Ser Val
              20              25              30

Lys Phe Asn Ser Arg Glu Phe Ser Leu Lys Arg Met Pro Ser Arg Lys
          35              40              45

Gln Thr Gly Val Phe Gly Val Lys Ile Ala Val Val Thr Lys Arg Glu
      50              55              60

Arg Ser Lys Val Pro Tyr Ile Val Arg Gln Cys Val Glu Glu Ile Glu
 65              70              75              80

Arg Arg Gly Met Glu Glu Val Gly Ile Tyr Arg Val Ser Gly Val Ala
              85              90              95

Thr Asp Ile Gln Ala Leu Lys Ala Xaa Phe Asp Val Asn Asn Lys Asp
          100             105             110

Val Ser Val Met Met Ser Glu Met Asp Val Asn Ala Ile Ala Gly Thr
          115             120             125

Leu Lys Leu Tyr Phe Arg Glu Leu Pro Glu Pro Leu Phe Thr Asp Glu
      130             135             140

Phe Tyr Pro Asn Phe Ala Glu Gly Ile Ala Leu Ser Asp Pro Val Ala
145             150             155             160

Lys Glu Ser Cys Met Leu Asn Leu Leu Leu Ser Leu Ala Gly Ala Asn
              165             170             175

Leu Ala Ser Xaa Phe Leu Phe Leu Phe Gly Thr Xaa
          180             185


<210>  1018
<211>  424
<212>  PRT
<213>  Homo sapiens

<220>
<221>  SITE
<222>  (25)
```

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (153)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1018
```
Gly Thr Ser Val Asp Glu Gly Ser Ile Ser Pro Arg Thr Leu Ser Ala
 1               5                  10                  15

Ile Lys Arg Ala Leu Asp Asp Asp Xaa Asp Val Lys Val Cys Ala Gly
            20                  25                  30

Asp Asp Val Gln Thr Gly Gly Pro Gly Ala Glu Glu Met Arg Ile Asn
            35                  40                  45

Ser Ser Thr Glu Asn Ser Asp Glu Gly Leu Lys Val Arg Asp Gly Lys
    50                  55                  60

Gly Ile Pro Phe Thr Ala Thr Leu Ala Ser Ser Ser Val Asn Ser Ala
65                  70                  75                      80

Glu Glu His Val Ala Ser Thr Asn Glu Gly Arg Glu Pro Thr Asp Ser
                85                  90                  95

Val Pro Lys Glu Gln Met Ser Leu Val His Val Gly Thr Glu Ala Phe
            100                 105                 110

Pro Ile Ser Asp Glu Ser Met Ile Lys Asp Arg Lys Asp Arg Leu Pro
            115                 120                 125

Leu Glu Ser Ala Val Val Arg His Ser Asp Ala Pro Gly Leu Pro Asn
    130                 135                 140

Gly Arg Glu Leu Thr Pro Ala Ser Xaa Thr Cys Thr Asn Ser Val Ser
145                 150                 155                 160

Lys Asn Glu Thr His Ala Glu Val Leu Glu Gln Gln Asn Glu Leu Cys
                165                 170                 175

Pro Tyr Glu Ser Lys Phe Asp Ser Ser Leu Leu Ser Ser Asp Asp Glu
            180                 185                 190

Thr Lys Cys Lys Pro Asn Ser Ala Ser Glu Val Ile Gly Pro Val Ser
            195                 200                 205

Leu Gln Glu Thr Ser Ser Ile Val Ser Val Pro Ser Glu Ala Val Asp
    210                 215                 220

Asn Val Glu Asn Val Val Ser Phe Asn Ala Lys Glu His Glu Asn Phe
```

```
        225                    230                    235                    240

    Leu Glu Thr Ile Gln Glu Gln Gln Thr Thr Glu Ser Ala Gly Gln Asp
                    245                    250                    255

    Leu Ile Ser Ile Pro Lys Ala Val Glu Pro Met Glu Ile Asp Ser Glu
                    260                    265                    270

    Glu Ser Glu Ser Asp Gly Ser Phe Ile Glu Val Gln Ser Val Ile Ser
                275                    280                    285

    Asp Glu Glu Leu Gln Ala Glu Phe Pro Glu Thr Ser Lys Pro Pro Ser
        290                    295                    300

    Glu Gln Gly Glu Glu Glu Leu Val Gly Thr Arg Glu Gly Glu Ala Pro
    305                    310                    315                    320

    Ala Glu Ser Glu Ser Leu Leu Arg Asp Asn Ser Glu Arg Asp Asp Val
                    325                    330                    335

    Asp Gly Glu Pro Gln Glu Ala Glu Lys Asp Ala Glu Asp Ser Leu His
                    340                    345                    350

    Glu Trp Gln Asp Ile Asn Leu Glu Glu Leu Glu Thr Leu Glu Ser Asn
                355                    360                    365

    Leu Leu Ala Gln Gln Asn Ser Leu Lys Ala Gln Lys Gln Gln Gln Glu
        370                    375                    380

    Arg Ile Ala Ala Thr Val Thr Gly Gln Met Phe Leu Glu Ser Gln Glu
    385                    390                    395                    400

    Leu Leu Arg Leu Phe Gly Ile Pro Tyr Ile Gln Ala Pro Met Glu Ala
                    405                    410                    415

    Glu Ala Gln Cys Ala Ser Trp Thr
                    420
```

```
<210> 1019
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1019
```

```
Val Leu Leu Ile Thr Phe Leu Gly Glu Glu Lys Lys Cys Tyr Ser Cys
 1           5               10              15

Lys Gln Met Tyr Ser Phe Gln Lys Glu Ala Thr Phe Leu Leu Pro Ser
             20              25              30

Leu Phe Leu Val Ser Ser Pro Arg Leu Ala Ile Xaa Ile Gly Ile Val
         35              40              45

Met Ala Ser Ile Leu Ser Leu Leu His Pro Tyr Leu Leu Leu Cys Asp
     50              55              60

Phe Ala Ala Pro Leu Ile Lys Glu Ala Glu Pro Pro Leu Pro Pro Ile
 65              70              75              80

Gly Ala Gly Phe Glu Ser Asn Arg Met Lys
             85              90
```

```
<210> 1020
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1020
Thr Arg Pro Ile Arg Pro Pro His Gln Ile Pro Val Asp Thr Leu Xaa
 1           5               10              15

His Val Ile Asn Gln Thr Gly Gly Tyr Ser Asp Gly Leu Gly Gly Asn
             20              25              30

Ser Leu Tyr Ser Pro His Asn Leu Asn Ala Asn Xaa Gly Trp Gln Asp
         35              40              45

Ala Thr Thr Pro Ser Ser Val Thr Ser Pro Thr Glu Gly Pro Gly Ser
     50              55              60

Val His Ser Asp Thr Ser Asn
 65              70
```

```
<210> 1021
<211> 301
<212> PRT
<213> Homo sapiens

<400> 1021
Pro Thr Pro Pro Thr Pro Ile Arg Thr Ala Ala Gln Arg Arg Glu Ile
 1               5                  10                      15

Trp Asp Phe Pro Gly Gln Ile Asp Phe Phe Asp Pro Thr Phe Asp Tyr
             20                  25                  30

Glu Met Ile Phe Arg Gly Thr Gly Ala Leu Ile Phe Val Ile Asp Ser
         35                  40                  45

Gln Asp Asp Tyr Met Glu Ala Leu Ala Arg Leu His Leu Thr Val Thr
     50                  55                  60

Arg Ala Tyr Lys Val Asn Thr Asp Ile Asn Phe Glu Val Phe Ile His
 65                  70                  75                      80

Lys Val Asp Gly Leu Ser Asp Asp His Lys Ile Glu Thr Gln Arg Asp
                 85                  90                  95

Ile His Gln Arg Ala Asn Asp Asp Leu Ala Asp Ala Gly Leu Glu Lys
             100                 105                 110

Ile His Leu Ser Phe Tyr Leu Thr Ser Ile Tyr Asp His Ser Ile Phe
         115                 120                 125

Glu Ala Phe Ser Lys Val Val Gln Lys Leu Ile Pro Gln Leu Pro Thr
     130                 135                 140

Leu Glu Asn Leu Leu Asn Ile Phe Ile Ser Asn Ser Gly Ile Glu Lys
145                 150                 155                 160

Ala Phe Leu Phe Asp Val Val Ser Lys Ile Tyr Ile Ala Thr Asp Ser
             165                 170                 175

Thr Pro Val Asp Met Gln Thr Tyr Glu Leu Cys Cys Asp Met Ile Asp
             180                 185                 190

Val Val Ile Asp Ile Ser Cys Ile Tyr Gly Leu Lys Glu Asp Gly Ala
         195                 200                 205

Gly Thr Pro Tyr Asp Lys Glu Ser Thr Ala Ile Ile Lys Leu Asn Asn
     210                 215                 220

Thr Thr Val Leu Tyr Leu Lys Glu Val Thr Lys Phe Leu Ala Leu Val
```

```
        225                 230                 235                 240

    Cys Phe Val Arg Glu Glu Ser Phe Glu Arg Lys Gly Leu Ile Asp Tyr
                        245                 250                 255

    Asn Phe His Cys Phe Arg Lys Ala Ile His Glu Val Phe Glu Val Arg
                    260                 265                 270

    Met Lys Val Val Lys Ser Arg Lys Val Gln Asn Arg Leu Gln Lys Lys
                275                 280                 285

    Lys Arg Ala Thr Pro Asn Gly Thr Pro Arg Val Leu Leu
        290                 295                 300
```

<210> 1022
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1022
```
    Thr Ala Asn Arg Gly Ser Ser Ala Ser Xaa Lys Ala Asp Ser Gly Leu
     1                   5                  10                  15

    Ala Gln Ser Asp Gly Arg Asp Pro Pro Thr Leu Trp Gly Trp Ser Leu
                    20                  25                  30

    His Leu Ala Leu
            35
```

<210> 1023
<211> 173
<212> PRT
<213> Homo sapiens

<400> 1023
```
    Ile Arg Gln Ser Ser Arg Glu Arg Ile Trp Arg Pro Pro Leu Trp Ile
     1                   5                  10                  15

    Leu Ala Arg Pro Gly Ser Ala Val Ala Val Arg Ala Gly Phe Pro Thr
                    20                  25                  30

    Pro Cys Arg Pro Pro Ser Leu Ser Ala Leu Ser Pro Ser Ala Ser Gln
```

```
                35                    40                    45

      Pro Cys Ser Arg Arg Arg Thr Gly Leu Ser Pro Gly Ser Trp Gly Trp
           50                  55                  60

      Pro Pro Ser Thr Arg Ser Ala Cys Phe Leu Thr Cys Leu Ser Ser Arg
      65                  70                  75                  80

      Ser Tyr Arg Leu Gln Ile Gly His Phe Leu Cys Leu Val Ile Leu Val
                       85                  90                  95

      Tyr Cys Ala Glu Tyr Ile Asn Glu Ala Ala Ala Met Asn Trp Arg Leu
                  100                 105                 110

      Phe Ser Lys Tyr Gln Tyr Phe Asp Ser Arg Gly Met Phe Ile Ser Ile
                  115                 120                 125

      Val Phe Ser Ala Pro Leu Leu Val Asn Ala Met Ile Ile Val Val Met
           130                 135                 140

      Trp Val Trp Lys Thr Leu Asn Val Met Thr Asp Leu Lys Asn Ala Gln
      145                 150                 155                 160

      Glu Arg Arg Lys Glu Lys Lys Arg Arg Arg Lys Glu Asp
                       165                 170
```

<210> 1024
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1024

```
Ala Trp Gly Ala Ala Arg Arg Gly Arg Gln Arg Pro Cys Pro Leu Leu
 1               5                   10                  15

Ala Gly Arg Thr Glu Phe Trp Pro Xaa Cys Glu Gly Lys Ala Glu Ala
            20                  25                  30

Cys Xaa Gly Xaa Trp Phe Lys Leu Xaa Gly Gln Gly Lys Gly Arg Gly
        35                  40                  45

Glu Trp Phe Ser Arg Ser Arg Arg Leu Cys Ser Arg Trp Thr Leu Glu
    50                  55                  60

Asn Lys Gly Glu Ser Ser Arg Glu Gln
65                  70
```

<210> 1025
<211> 171
<212> PRT
<213> Homo sapiens

<400> 1025

```
Leu Leu Pro Glu Thr Ala Leu Leu Asn Met Arg Ala Ala Pro Leu Leu
 1               5                   10                  15

Leu Ala Arg Ala Ala Ser Leu Ser Leu Gly Phe Leu Phe Leu Leu Phe
            20                  25                  30

Phe Trp Leu Asp Arg Ser Val Leu Ala Lys Glu Leu Lys Phe Val Thr
        35                  40                  45

Leu Val Phe Arg His Gly Asp Arg Ser Pro Ile Asp Thr Phe Pro Thr
    50                  55                  60

Asp Pro Ile Lys Glu Ser Ser Trp Pro Gln Gly Phe Gly Gln Leu Thr
65                  70                  75                  80

Gln Leu Gly Met Glu Gln His Tyr Glu Leu Gly Glu Tyr Ile Arg Lys
                85                  90                  95

Arg Tyr Arg Lys Phe Leu Asn Glu Ser Tyr Lys His Glu Gln Val Tyr
                100                 105                 110

Ile Arg Ser Thr Asp Val Asp Arg Thr Leu Met Ser Ala Met Thr Asn
            115                 120                 125

Leu Ala Ala Leu Phe Pro Pro Glu Gly Val Ser Ile Trp Asn Pro Ile
```

```
                130                      135                      140
    Leu Leu Trp Gln Pro Ile Pro Val His Thr Val Pro Leu Ser Glu Asp
    145                      150                      155                      160

    Gln Leu Leu Tyr Leu Thr Phe Gln Glu Leu Pro
                        165                      170
```

```
<210> 1026
<211> 238
<212> PRT
<213> Homo sapiens

<400> 1026
    Ala Asn Trp Asp Leu Glu Met Ile Leu Arg Cys Ser Ser Asn Asp Leu
     1               5                      10                      15

    Glu Leu Leu Gln Ala Glu His Gly Ile Leu Lys Ile Gly Glu Thr Asn
                        20                      25                      30

    Lys Phe Ser Gly Tyr Pro Leu Tyr His Ser Val Tyr Glu Thr Tyr Glu
                35                      40                      45

    Leu Val Glu Lys Phe Tyr Asp Pro Met Phe Lys Tyr His Leu Thr Val
            50                      55                      60

    Ala Gln Val Arg Gly Gly Met Val Phe Glu Leu Ala Asn Ser Ile Val
    65                      70                      75                      80

    Leu Pro Phe Asp Cys Arg Asp Tyr Ala Val Val Leu Arg Lys Tyr Ala
                        85                      90                      95

    Asp Lys Ile Tyr Ser Ile Ser Met Lys His Pro Gln Glu Met Lys Thr
                        100                     105                     110

    Tyr Ser Val Ser Phe Asp Ser Leu Phe Ser Ala Val Lys Asn Phe Thr
                115                     120                     125

    Glu Ile Ala Ser Lys Phe Ser Glu Arg Leu Gln Asp Phe Asp Lys Ser
        130                     135                     140

    Asn Pro Ile Val Leu Arg Met Met Asn Asp Gln Leu Met Phe Leu Glu
    145                     150                     155                     160

    Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg Pro Phe Tyr Arg
                        165                     170                     175

    His Val Ile Tyr Ala Pro Ser Ser His Asn Lys Tyr Ala Gly Glu Ser
                        180                     185                     190
```

Phe Pro Gly Ile Tyr Asp Ala Leu Phe Asp Ile Glu Ser Lys Val Asp
        195   200   205

Pro Ser Lys Ala Trp Gly Glu Val Lys Arg Gln Ile Tyr Val Ala Ala
        210   215   220

Phe Thr Val Gln Ala Ala Ala Glu Thr Leu Ser Glu Val Ala
225   230   235

<210> 1027
<211> 132
<212> PRT
<213> Homo sapiens

<400> 1027
Gly Pro Thr Thr Thr Lys Phe Ala Ala Arg Arg Gln Gly Val Leu Leu
  1   5   10   15

Ile Thr Met Asn Val Leu Leu Gly Ser Val Val Ile Phe Ala Thr Phe
            20   25   30

Val Thr Leu Cys Asn Ala Ser Cys Tyr Phe Ile Pro Asn Glu Gly Val
        35   40   45

Pro Gly Asp Ser Thr Arg Lys Cys Met Asp Leu Lys Gly Asn Lys His
        50   55   60

Pro Ile Asn Ser Glu Trp Gln Thr Asp Asn Cys Glu Thr Cys Thr Cys
 65   70   75   80

Tyr Glu Thr Glu Ile Ser Cys Cys Thr Leu Val Ser Thr Pro Val Gly
                85   90   95

Tyr Asp Lys Asp Asn Cys Gln Arg Ile Phe Lys Lys Glu Asp Cys Lys
            100   105   110

Tyr Ile Val Val Glu Lys Lys Asp Pro Lys Lys Thr Cys Ser Val Ser
            115   120   125

Glu Trp Ile Ile
        130

<210> 1028
<211> 116
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1028

```
Ser Leu Thr Ser Cys Ile Leu Glu Ile Leu Gln Ser Leu Ser Tyr Ser
 1               5                  10                  15

Tyr Gln Asn Ser Cys Arg Pro Leu Thr Pro Asp Ser Pro Cys Leu Gln
            20                  25                  30

Cys Pro Pro Ala Cys Arg Gly Gly Xaa Val Thr Ala Thr Leu Ser His
            35                  40                  45

Gln Leu Phe Ser Ile Cys Arg Pro Ser Trp Gly Arg Val Pro Ser Ser
        50                  55                  60

Cys Ser Pro Cys Leu Trp Glu Lys Ser His Val Leu Phe Ile Ser Pro
 65                  70                  75                  80

His Cys Thr Leu Ser Leu Thr Leu Asp Tyr Asn Ser Ser Glu Phe Asp
                85                  90                  95

Leu His Leu Leu Asp Lys Pro Gly Thr Val Leu Gly Ile Met Xaa Thr
            100                 105                 110

Ile Arg Gln Ile
        115
```

<210> 1029
<211> 216
<212> PRT
<213> Homo sapiens

<400> 1029

```
Thr Leu Lys Ser Glu Glu Phe Gln Lys Arg Leu His Pro Tyr Lys Asp
 1               5                  10                  15

Phe Ile Ala Thr Leu Gly Lys Leu Ser Gly Leu His Gly Gln Asp Leu
            20                  25                  30

Phe Gly Ile Trp Ser Lys Val Tyr Asp Pro Leu Tyr Cys Glu Ser Val
```

```
                    35                    40                    45

     His Asn Phe Thr Leu Pro Ser Trp Ala Thr Glu Asp Thr Met Thr Lys
          50                    55                    60

     Leu Arg Glu Leu Ser Glu Leu Ser Leu Leu Ser Leu Tyr Gly Ile His
      65                    70                    75                    80

     Lys Gln Lys Glu Lys Ser Arg Leu Gln Gly Gly Val Leu Val Asn Glu
                    85                    90                    95

     Ile Leu Asn His Met Lys Arg Ala Thr Gln Ile Pro Ser Tyr Lys Lys
                   100                   105                   110

     Leu Ile Met Tyr Ser Ala His Asp Thr Thr Val Ser Gly Leu Gln Met
                   115                   120                   125

     Ala Leu Asp Val Tyr Asn Gly Leu Leu Pro Pro Tyr Ala Ser Cys His
                   130                   135                   140

     Leu Thr Glu Leu Tyr Phe Glu Lys Gly Glu Tyr Phe Val Glu Met Tyr
     145                   150                   155                   160

     Tyr Arg Asn Glu Thr Gln His Glu Pro Tyr Pro Leu Met Leu Pro Gly
                   165                   170                   175

     Cys Ser Pro Ser Cys Pro Leu Glu Arg Phe Ala Glu Leu Val Gly Pro
                   180                   185                   190

     Val Ile Pro Gln Asp Trp Ser Thr Glu Cys Met Thr Thr Asn Ser His
                   195                   200                   205

     Gln Gly Thr Glu Asp Ser Thr Asp
          210                   215
```

```
<210> 1030
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1030
His His Ala Trp Leu Ile Phe Leu Ile Xaa Ile Phe Ser Arg Asp Lys
  1               5                   10                  15
```

```
Val Ala Leu Cys Cys Pro Gly Trp Tyr Gly Thr Pro Val Leu Lys Arg
             20              25                  30

Ser Ser Cys Leu Gly Phe Pro Lys Cys
            35              40
```

```
<210> 1031
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1031
Pro Gly Trp Ser Gln Ser Xaa Gly Leu Arg Pro Ser Phe His Leu Ile
 1               5                   10                  15

Leu Pro Lys Asn Trp Asp Tyr Arg His Glu Gln Leu His Leu Val His
            20                  25                  30

Met Leu Leu Ile Val Glu Glu Val Lys Gly Gln
            35              40
```

```
<210> 1032
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1032
Gln Gly Phe Trp His Gln Leu Glu Ile Leu Trp Met Asp Val Leu Pro
 1               5                   10                  15

Trp Ser Phe Tyr Phe Asn Val Leu Thr Thr Tyr Asp Ser Ser Ile Cys
            20                  25                  30

Ser Ile Asn Tyr Ile His Tyr His Ser Asn Ser His His Leu Ile Cys
            35              40                  45

Ile Xaa Tyr Leu Ile Leu Pro Ser Asn Tyr Gly Ile Ser Asp Leu
```

```
                50                      55                      60


    <210> 1033
    <211> 63
    <212> PRT
    <213> Homo sapiens

    <400> 1033
    Lys Leu Cys Met Lys Thr Gly Gly Lys His Ser Val Ile Arg Tyr Phe
     1               5                  10                     15


    Ser Asn Ile Lys Thr Thr Lys Thr Asn Asp Lys Asn Val Tyr Phe Tyr
                  20                  25                     30


    Thr Pro Ala Tyr Arg Val Ser Phe Arg Asp Val Tyr Glu Tyr Leu Asn
              35                  40                     45


    Leu Leu Ile Ser Val Leu Met Lys Ala Glu Leu Asn Arg Glu Ser
            50                  55                     60



    <210> 1034
    <211> 113
    <212> PRT
    <213> Homo sapiens

    <220>
    <221> SITE
    <222> (16)
    <223> Xaa equals any of the naturally occurring L-amino acids

    <220>
    <221> SITE
    <222> (100)
    <223> Xaa equals any of the naturally occurring L-amino acids

    <220>
    <221> SITE
    <222> (105)
    <223> Xaa equals any of the naturally occurring L-amino acids

    <400> 1034
    Val Asn Leu Ala Cys Gly Ala Pro Leu Lys Cys Glu Asp Leu Ala Xaa
     1               5                  10                     15


    Trp Leu Lys Ile Lys Leu Gly Phe Val Leu Asn Ile Leu Ala Gly Pro
                  20                  25                     30
```

```
Ile Ile His Lys Lys Arg Gly His Ser Pro Phe Ala Arg Leu Leu Asn
        35                  40                  45

Glu Leu His Ser Phe Cys Thr Trp Lys Cys Leu Phe Ser His Lys Lys
        50                  55                  60

Asn Asn Ser Tyr Asn Leu Ile Ser Leu Val Pro Tyr Gln Gln Lys Lys
 65                  70                  75                  80

Ser Gln Glu Thr Ile Met Lys Thr Leu Val Ser Ser Leu Gly Asp Tyr
                85                  90                  95

Ile Met Leu Xaa Ser Leu Ile Ile Xaa Leu Tyr Leu Asn Lys Tyr Ile
            100                 105                 110

Phe
```

```
<210> 1035
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1035
Gly Leu Arg Asp Leu Asp Ser Asn Pro Arg Ala Leu Ser Cys Tyr Ser
  1               5                  10                  15

Gly Val Ser Thr Val Arg Xaa Gly Pro Gly Ala Leu Ser His His Leu
                20                  25                  30

Pro Arg Pro Arg Asp His His Pro Leu Lys Arg Gly Pro Ser Pro Leu
        35                  40                  45

Ser Thr Pro Ser Arg Asp Pro Ala Leu Gly Cys Ser Arg Leu Thr Ala
        50                  55                  60

His Gly Val Leu Phe Trp Ala Thr Ala Ala Arg Ala Pro Gly Arg Gly
 65                  70                  75                  80
```

Xaa Gly Thr Pro Glu Asn Thr Pro Leu Phe Met Val Leu Cys Pro Phe
              85   90   95

Ile Arg Arg Leu Leu Lys Asn Trp Ala Val Cys Lys Ala Asn Pro Ala
             100   105   110

Pro Cys Pro Ser Arg Phe Ser Glu Arg Gly Val Pro Trp Glu Trp Ser
         115   120   125

Cys Ser Pro His Gly Ser Thr Thr Phe Pro Val Pro Arg Cys His
    130   135   140

<210> 1036
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1036
Glu His Ile Trp Leu Ser Ile Trp Asp Arg Pro Pro Arg Ser Cys Phe
  1   5   10   15

Thr Arg Ile Gln Arg Ala Thr Cys Cys Val Leu Leu Ile Cys Leu Phe
         20   25   30

Leu Gly Ala Asn Ala Val Trp Tyr Gly Ala Val Gly Asp Ser Ala Tyr
         35   40   45

Ser Thr Gly Xaa Val Ser Arg Leu Xaa Pro Leu Ser Val Asp Thr Val
    50   55   60

```
Ala Val Gly Leu Val Ser Ser Val Val Val Tyr Pro Val Tyr Leu Ala
 65              70              75              80

Xaa Leu Phe Leu Phe Xaa Met Ser Arg Ser Lys Val Ile Asn Thr Leu
                85              90              95

Ala Asp His Arg His Arg Gly Thr Asp Phe Gly Gly Ser Pro Trp Leu
            100             105             110

Leu Ile Ile Asn Cys Val Ser Glu Lys Leu
            115             120
```

```
<210> 1037
<211> 29
<212> PRT
<213> Homo sapiens

<400> 1037
Thr Pro Gly Leu Lys Gln Ser Phe Cys Leu Gly Pro Pro Lys Cys Trp
 1               5               10              15

Asp Cys Gly His Glu Leu Leu Cys Pro Ala Ser Met Phe
            20              25
```

```
<210> 1038
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1038
Glu Thr Ala Arg Gly Thr Gly Arg Asn Gly Leu Ser Ala Leu Asn His
 1               5               10              15

His Lys Pro Trp Leu Arg Lys Gly His Ala Ser Pro Ser Arg Arg Met
            20              25              30
```

```
Thr Pro Ile Arg Asp Pro Gln Arg Arg Cys Met Ser Ile Leu Ala Pro
        35              40              45

Arg Ala Val Met Gln Pro Ala Arg Ser Gln Gly Glu Gly Thr Gln Lys
    50              55              60

Pro Gly Met Leu Ala Lys Gly Val Lys Glu Thr Phe Glu Leu Phe Thr
65              70              75              80

Ala Cys Ser Asn Tyr Val Lys Xaa Thr Pro Leu Asn Lys Ile Trp Ser
                85              90              95

Met Phe Val Xaa Leu Tyr Leu Ile
        100
```

```
<210> 1039
<211> 156
<212> PRT
<213> Homo sapiens

<400> 1039
```

```
Gly His Met Glu Leu Ala Met Asp Asn Ser Tyr Ala Phe Asn Gln Arg
1               5               10              15

Ser Thr Cys Asn Gly Ile Pro Ser Glu Lys Lys Asn Asn Phe Leu Val
                20              25              30

Ser Glu Asp His Gly Gln Lys Ile Leu Ser Val Leu Gln Asn Phe Arg
        35              40              45

Glu Gln Asn Val Phe Tyr Asp Phe Lys Ile Ile Met Lys Asp Glu Ile
    50              55              60

Ile Pro Cys His Arg Cys Val Leu Ala Ala Cys Ser Asp Phe Phe Arg
65              70              75              80

Ala Met Phe Glu Val Asn Met Lys Glu Arg Asp Asp Gly Ser Val Thr
                85              90              95

Ile Thr Asn Leu Ser Ser Lys Ala Val Lys Ala Phe Leu Asp Tyr Ala
                100             105             110

Tyr Thr Gly Lys Thr Lys Ile Thr Asp Asp Asn Val Glu Met Phe Phe
        115             120             125

Gln Leu Ser Ser Phe Leu Gln Val Ser Phe Leu Ser Lys Ala Cys Ser
    130             135             140

Asp Phe Leu Ile Lys Ser Ile Asn Leu Glu Lys Lys
```

145   150   155

<210> 1040
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1040
Pro Ser Pro Cys Pro Cys Ser Cys Ala Trp Val Arg Trp Pro Arg Arg
 1   5   10   15

Thr Pro Pro Ser Arg Thr Thr Arg Ala Arg Thr His Gln Xaa Arg Asp
             20   25   30

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
             35   40   45

Arg Gln Arg Tyr Gly Lys Arg Ser Ser Pro Glu Thr Leu Ile Ser Asp
         50   55   60

Leu Leu Met Arg Glu Ser Thr Glu Asn Val Pro Arg Thr Arg Leu Glu
 65   70   75   80

Asp Pro Ala Met Trp
                 85

<210> 1041
<211> 234
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1041
Leu Gly Gln Tyr Gln Pro Ala Arg Glu Glu Ile Ser Lys Asp Leu Arg
 1   5   10   15

Ala Thr Leu Asn Ala Phe Leu Tyr His Met Gly Gln His Ser Asn Lys
             20   25   30

```
Phe Met Leu Val Leu Ala Ser Asn Leu Pro Glu Gln Phe Asp Cys Ala
         35                  40                  45

Ile Asn Ser Arg Ile Asp Val Met Val His Phe Asp Leu Pro Gln Xaa
         50                  55                  60

Glu Glu Arg Glu Arg Leu Val Arg Leu His Phe Asp Asn Cys Val Leu
65                  70                  75                  80

Lys Pro Ala Thr Glu Gly Lys Arg Arg Leu Lys Leu Ala Gln Phe Asp
                 85                  90                  95

Tyr Gly Arg Lys Cys Ser Glu Val Ala Arg Leu Thr Glu Gly Met Ser
             100                 105                 110

Gly Arg Glu Ile Ala Gln Leu Ala Val Ser Trp Gln Ala Thr Ala Tyr
         115                 120                 125

Ala Ser Lys Asp Gly Val Leu Thr Glu Ala Met Met Asp Ala Cys Val
     130                 135                 140

Gln Asp Ala Val Gln Gln Tyr Arg Gln Lys Met Arg Trp Leu Lys Ala
145                 150                 155                 160

Glu Gly Pro Gly Arg Gly Val Glu His Pro Leu Ser Gly Val Gln Gly
             165                 170                 175

Glu Thr Leu Thr Ser Trp Ser Leu Ala Thr Asp Pro Ser Tyr Pro Cys
         180                 185                 190

Leu Ala Gly Pro Cys Thr Phe Arg Ile Cys Ser Trp Met Gly Thr Gly
         195                 200                 205

Leu Cys Pro Gly Pro Leu Ser Pro Arg Met Ser Cys Gly Gly Gly Arg
     210                 215                 220

Pro Phe Cys Pro Pro Gly His Pro Leu Leu
225                 230
```

```
<210> 1042
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1042
Ala Asn Leu Met Lys Cys Lys Val Gln Ala Gly Met Ile Xaa Ser Val
1   5   10   15

Cys Lys Asp Lys Ser Phe Asp Asp Glu Glu Ser Val Asp Gly Asn Arg
                20   25   30

Pro Ser Ser Ala Ala Ser Ala Phe Lys Val Pro Ala Leu Lys His Pro
            35   40   45

Glu Ile Leu Pro Thr Val Gln Gly Ser Trp Phe Ser Arg Trp Pro
        50   55   60

<210> 1043
<211> 64
<212> PRT
<213> Homo sapiens

<400> 1043
Gln Leu Arg Ser Arg Ala Gly Leu Leu Ser Ser Thr Val Arg Ala Arg
1   5   10   15

Asn Trp Pro Gln Asn Pro Gln Ser Gln Pro Trp Gly Pro Leu Gly Pro
                20   25   30

Gln Thr Pro Val Phe Ser Phe Cys Val Ala Ser Trp Phe Pro Gly Val
            35   40   45

Leu Phe Tyr Ala Ala Ser Gly Val Arg Ser Ser Ala Phe Asn Leu Phe
        50   55   60

<210> 1044
<211> 97
<212> PRT
<213> Homo sapiens

<400> 1044
Ala Ser Arg Ser Leu Pro Thr Ala Ala Val His Val Arg Leu Leu Pro
1   5   10   15

Leu Cys Ala Glu Arg Gln Glu Asp His Glu Asn Asp Pro Leu Ser Glu
                20   25   30

```
Leu Gln Arg Gln Ile Ala Gln Pro Glu Met Arg Cys Thr Ile Arg Leu
        35              40              45

Leu Asp Asp Ser Glu Ile Ser Cys His Ile Gln Arg Glu Thr Lys Gly
    50              55              60

Gln Phe Leu Ile Asp His Ile Cys Asn Tyr Tyr Ser Leu Leu Glu Lys
65              70              75              80

Asp Tyr Phe Gly Ile Arg Tyr Val Asp Pro Glu Lys Gln Arg His Trp
                85              90              95

Ala
```

<210> 1045
<211> 43
<212> PRT
<213> Homo sapiens

<400> 1045

```
Thr Leu Ile Phe Pro Pro Leu Arg Ile Ile Asn Phe Leu Ser Phe Tyr
 1           5               10              15

His Ile Cys Phe Arg Ser Phe Phe Phe Leu Lys Lys Ser Ile Thr Asp
                20              25              30

Leu Ala Lys Val Pro Phe Asp Gln Tyr Pro Thr
            35              40
```

<210> 1046
<211> 221
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (182)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

```
<222> (186)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (209)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (212)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1046
Arg Ser Gly Arg Leu Arg Leu Ser Leu Tyr Cys Gly Ala Gly Gln Gly
 1               5                  10                  15

Val Arg Ala Gly Arg Gly Thr Gly Thr Pro Ala Val Xaa Gly Arg Leu
            20                  25                  30

Glu Ile Met Glu Gly Lys Trp Leu Leu Cys Met Leu Leu Val Leu Gly
            35                  40                  45

Thr Ala Ile Val Glu Ala His Asp Gly His Asp Asp Asp Val Ile Asp
        50                  55                  60

Ile Glu Asp Asp Leu Asp Asp Val Ile Glu Glu Val Glu Asp Ser Lys
65                  70                  75                  80

Pro Asp Thr Thr Ala Pro Pro Ser Ser Pro Lys Val Thr Tyr Lys Ala
                85                  90                  95

Pro Val Pro Thr Gly Glu Val Tyr Phe Ala Asp Ser Phe Asp Arg Gly
            100                 105                 110

Thr Leu Ser Gly Trp Ile Leu Ser Lys Ala Lys Lys Asp Asp Thr Asp
            115                 120                 125

Asp Glu Ile Ala Lys Tyr Asp Gly Lys Trp Glu Val Glu Glu Met Lys
        130                 135                 140

Glu Ser Lys Leu Pro Gly Asp Lys Gly Leu Val Leu Met Ser Arg Ala
145                 150                 155                 160

Lys His His Ala Ile Ser Ala Lys Leu Asn Lys Pro Phe Leu Phe Asp
                165                 170                 175
```

```
Thr Lys Pro Leu Ile Xaa Gln Tyr Glu Xaa Asn Phe Gln Asn Gly Ile
        180             185             190

Glu Cys Gly Gly Ala Tyr Val Lys Leu Leu Ser Lys Thr Pro Glu Leu
        195             200             205

Xaa Leu Asp Xaa Val Xaa Arg Thr Ile Asn Cys Leu His
    210             215             220
```

```
<210> 1047
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1047
Gly Ile Pro Pro His Phe Cys Gly Phe Phe Pro Val Val Asp Asp Gln
 1           5               10              15

Gly Trp Asn Leu Gln Ser Met Gly Pro Asp Phe Leu Pro Ser Ser Gln
            20              25              30

Ile Asp Ser Ala Ala Ser His Leu Cys Ser Ala Pro Val Ala Leu Lys
        35              40              45

Cys Asn Arg Asn His His Pro Arg Thr Met Gly Ser Met Pro Val Gly
    50              55              60

Lys Ala Gln Val Arg Ser Leu Ser Ser Gln His Ile Ala Val Ala Gly
 65             70              75              80

Thr Trp
```

```
<210> 1048
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
```

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1048
Pro Gly Ser Pro Asp Gln Arg Pro Thr Pro Gln Gly Glu Phe Ile Leu
 1   5   10   15

Cys Gln Gln Gln Ser Phe Pro Ser Ser Glu Ala Ser His Pro His Pro
                20   25   30

Arg Arg Gln Gly Lys Gln Ala Arg Gly Gly Gln Glu Ser Ser Gln Leu
            35   40   45

Ser Glu Ala Ala Pro Pro Ala Pro Lys His Leu Pro Cys Ser Gln Leu
        50   55   60

Xaa Xaa Gln Leu Leu Pro Ala Ala Lys Xaa Thr Ala Ala Phe Arg Leu
65   70   75   80

Thr Ser Met Pro Leu
                85

<210> 1049
<211> 75
<212> PRT
<213> Homo sapiens

<400> 1049
Ser Pro Cys Arg Glu Glu Ser Gln Gln Ile Ile Ser Lys Leu Glu Asn
 1   5   10   15

Gln Glu Ile Thr Val Ile Ile Arg Asp Ile Trp Gly Gly Tyr Lys Tyr
                20   25   30

Gln Asn Lys Lys Ile Lys Glu Met Lys Ile Val Val Ser Gly Glu Leu
            35   40   45

Lys Ser Lys Ile Gln Arg Cys Glu Ala Asp Leu Ile Tyr Tyr Leu Thr
        50   55   60

Cys Ile Leu Phe Ile Ala Gln Tyr Ser Val Phe
65   70   75

```
<210> 1050
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1050
Gly Lys Lys Ile Lys Lys Leu Ala Ser Ala Xaa Arg Gly Gly Ser Leu
 1           5                   10                  15

Pro Val Ile Pro Ala Leu Ser Ala Ala Glu Ala Ser Gly Ser Leu Glu
            20                  25                  30

Val Xaa Ser Ser Lys Thr Ser Leu Gly Gln Thr
         35                  40
```

```
<210> 1051
<211> 341
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1051
Gly Pro Gln Glu Met Thr Ala Gly Gly Gln Ala Glu Ala Glu Gly Ala
 1           5                   10                  15

Gly Gly Glu Pro Gly Ala Ala Arg Leu Pro Ser Arg Val Ala Arg Leu
            20                  25                  30

Leu Ser Ala Leu Phe Tyr Gly Thr Cys Ser Phe Leu Ile Val Leu Val
         35                  40                  45

Asn Lys Ala Leu Leu Thr Thr Tyr Gly Phe Pro Ser Pro Ile Phe Leu
    50                  55                  60

Gly Ile Gly Gln Met Ala Ala Thr Ile Met Ile Leu Tyr Val Ser Lys
```

```
            65                    70                    75                    80

Leu Asn Lys Ile Ile His Phe Pro Asp Phe Asp Lys Lys Ile Pro Val
                85                    90                    95

Lys Leu Phe Pro Xaa Pro Leu Leu Tyr Val Gly Asn His Ile Ser Gly
               100                   105                   110

Leu Ser Ser Thr Ser Lys Leu Ser Leu Pro Met Phe Thr Val Leu Arg
               115                   120                   125

Lys Phe Thr Ile Pro Leu Thr Leu Leu Leu Glu Thr Ile Ile Leu Gly
   130                   135                   140

Lys Gln Tyr Ser Leu Asn Ile Ile Leu Ser Val Phe Ala Ile Ile Leu
145                   150                   155                   160

Gly Ala Phe Ile Ala Ala Gly Ser Asp Leu Ala Phe Asn Leu Glu Gly
               165                   170                   175

Tyr Ile Phe Val Phe Leu Asn Asp Ile Phe Thr Ala Ala Asn Gly Val
               180                   185                   190

Tyr Thr Lys Gln Lys Met Asp Pro Lys Glu Leu Gly Lys Tyr Gly Val
               195                   200                   205

Leu Phe Tyr Asn Ala Cys Phe Met Ile Ile Pro Thr Leu Ile Ile Ser
   210                   215                   220

Val Ser Thr Gly Asp Leu Gln Gln Ala Thr Glu Phe Asn Gln Trp Lys
225                   230                   235                   240

Asn Val Val Phe Ile Leu Gln Phe Leu Leu Ser Cys Phe Leu Gly Phe
               245                   250                   255

Leu Leu Met Tyr Ser Thr Val Leu Cys Ser Tyr Tyr Asn Ser Ala Leu
               260                   265                   270

Thr Thr Ala Val Val Gly Ala Ile Lys Asn Val Ser Val Ala Tyr Ile
               275                   280                   285

Gly Ile Leu Ile Gly Gly Asp Tyr Ile Phe Ser Leu Leu Asn Phe Val
   290                   295                   300

Gly Leu Asn Ile Cys Met Ala Gly Gly Leu Arg Tyr Ser Phe Leu Thr
305                   310                   315                   320

Leu Ser Ser Gln Leu Lys Pro Lys Pro Val Gly Glu Glu Asn Ile Cys
                325                   330                   335

Leu Asp Leu Lys Ser
```

340

<210> 1052
<211> 85
<212> PRT
<213> Homo sapiens

<400> 1052
Pro Ala Ala Arg Ala Ala Thr Asp Ser Val Ser Ala Ile Phe Asp Lys
 1   5   10   15

Gly Lys Lys Val Arg Glu Ser Phe Gln Ala Leu Gly Arg Ile Ile Phe
            20   25   30

Phe Gln Asp Ala Val Phe Arg Thr Phe Val Ile Lys His Thr Ala Gln
            35   40   45

Val Ile Thr Gly Ile Asp Ser Asp Ile Arg His Leu Ser Leu Ala Leu
        50   55   60

Leu Lys Asn Gly Gly Asn Val Ile Ser Trp Ala Gly Val Gly Cys Asn
 65   70   75   80

Pro Glu Val Pro Leu
                85

<210> 1053
<211> 724
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (680)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1053
Val Asp Ser Glu Ser Ala Ser Val Val Gly Lys Arg Pro Pro Phe His
 1   5   10   15

Gly Thr Pro Ser Thr Met Ser Ser Pro Ala Ser Thr Pro Ser Arg Arg
            20   25   30

```
Gly Ser Arg Arg Gly Arg Ala Thr Pro Ala Gln Thr Pro Arg Ser Glu
        35              40              45

Asp Ala Arg Ser Ser Pro Ser Gln Arg Arg Arg Gly Glu Asp Ser Thr
        50              55              60

Ser Thr Gly Glu Leu Gln Pro Met Pro Thr Ser Pro Gly Val Asp Leu
65              70              75              80

Gln Ser Pro Ala Ala Gln Xaa Val Leu Phe Ser Ser Pro Pro Gln Met
                85              90              95

His Ser Ser Ala Ile Pro Leu Asp Phe Asp Val Ser Ser Pro Leu Thr
            100             105             110

Tyr Gly Thr Pro Ser Ser Arg Val Glu Gly Thr Pro Arg Ser Gly Val
        115             120             125

Arg Gly Thr Pro Val Arg Gln Arg Pro Asp Leu Gly Ser Ala Gln Lys
        130             135             140

Gly Leu Gln Val Asp Leu Gln Ser Asp Gly Ala Ala Ala Glu Asp Ile
145             150             155             160

Val Ala Ser Glu Gln Ser Leu Gly Gln Lys Leu Val Ile Trp Gly Thr
            165             170             175

Asp Val Asn Val Ala Ala Cys Lys Glu Asn Phe Gln Arg Phe Leu Gln
            180             185             190

Arg Phe Ile Asp Pro Leu Ala Lys Glu Glu Glu Asn Val Gly Ile Asp
        195             200             205

Ile Thr Glu Pro Leu Tyr Met Gln Arg Leu Gly Glu Ile Asn Val Ile
    210             215             220

Gly Glu Pro Phe Leu Asn Val Asn Cys Glu His Ile Lys Ser Phe Asp
225             230             235             240

Lys Asn Leu Tyr Arg Gln Leu Ile Ser Tyr Pro Gln Glu Val Ile Pro
            245             250             255

Thr Phe Asp Met Ala Val Asn Glu Ile Phe Phe Asp Arg Tyr Pro Asp
            260             265             270

Ser Ile Leu Glu His Gln Ile Gln Val Arg Pro Phe Asn Ala Leu Lys
        275             280             285

Thr Lys Asn Met Arg Asn Leu Asn Pro Glu Asp Ile Asp Gln Leu Ile
        290             295             300
```

```
Thr Ile Ser Gly Met Val Ile Arg Thr Ser Gln Leu Ile Pro Glu Met
305           310           315           320

Gln Glu Ala Phe Phe Gln Cys Gln Val Cys Ala His Thr Thr Arg Val
            325           330           335

Glu Met Asp Arg Gly Arg Ile Ala Glu Pro Ser Val Cys Gly Arg Cys
            340           345           350

His Thr Thr His Ser Met Ala Leu Ile His Asn Arg Ser Leu Phe Ser
        355           360           365

Asp Lys Gln Met Ile Lys Leu Gln Glu Ser Pro Glu Asp Met Pro Ala
        370           375           380

Gly Gln Thr Pro His Thr Val Ile Leu Phe Ala His Asn Asp Leu Val
385           390           395           400

Asp Lys Val Gln Pro Gly Asp Arg Val Asn Val Thr Gly Ile Tyr Arg
            405           410           415

Ala Val Pro Ile Arg Val Asn Pro Arg Val Ser Asn Val Lys Ser Val
            420           425           430

Tyr Lys Thr His Ile Asp Val Ile His Tyr Arg Lys Thr Asp Ala Lys
        435           440           445

Arg Leu His Gly Leu Asp Glu Glu Ala Glu Gln Lys Leu Phe Ser Glu
        450           455           460

Lys Arg Val Glu Leu Leu Lys Glu Leu Ser Arg Lys Pro Asp Ile Tyr
465           470           475           480

Glu Arg Leu Ala Ser Ala Leu Ala Pro Ser Ile Tyr Glu His Glu Asp
            485           490           495

Ile Lys Lys Gly Ile Leu Leu Gln Leu Phe Gly Gly Thr Arg Lys Asp
            500           505           510

Phe Ser His Thr Gly Arg Gly Lys Phe Arg Ala Glu Ile Asn Ile Leu
        515           520           525

Leu Cys Gly Asp Pro Gly Thr Ser Lys Ser Gln Leu Leu Gln Tyr Val
        530           535           540

Tyr Asn Leu Val Pro Arg Gly Gln Tyr Thr Ser Gly Lys Gly Ser Ser
545           550           555           560

Ala Val Gly Leu Thr Ala Tyr Val Met Lys Asp Pro Glu Thr Arg Gln
            565           570           575
```

```
Leu Val Leu Gln Thr Gly Ala Leu Val Leu Ser Asp Asn Gly Ile Cys
            580             585             590

Cys Ile Asp Glu Phe Asp Lys Met Asn Glu Ser Thr Arg Ser Val Leu
            595             600             605

His Glu Val Met Glu Gln Gln Thr Leu Ser Ile Ala Lys Ala Gly Ile
        610             615             620

Ile Cys Gln Leu Asn Ala Arg Thr Ser Val Leu Ala Ala Ala Asn Pro
625             630             635             640

Ile Glu Ser Gln Trp Asn Pro Lys Lys Thr Thr Ile Glu Asn Ile Gln
                645             650             655

Leu Pro His Thr Leu Leu Ser Arg Phe Asp Leu Ile Phe Leu Met Leu
            660             665             670

Asp Pro Gln Asp Glu Ala Tyr Xaa Gln Ala Ser Gly Ser Pro Pro Gly
            675             680             685

Arg Thr Val Leu Pro Glu Arg Gly Ala Gly Arg Gly Gly Ala Pro Gly
            690             695             700

His Gly Gly Ala Lys Gly Leu His Cys Leu Arg Ala Gln His His His
705             710             715             720

Ala Ala Ala Lys
```

```
<210> 1054
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1054
Leu Leu Cys Phe Tyr Glu Pro Arg Cys Ser Arg Lys Trp Xaa Gln Arg
 1               5               10              15
```

```
His Ala Ser Xaa Arg Ser Pro Tyr Pro Ala Phe Val Pro Ala Val Pro
            20                  25                  30

Lys Ser Leu Ala Arg Ile Leu His Leu Gly Lys Lys Val Leu Asn Ala
        35                  40                  45

Asn Val Thr Pro
        50
```

<210> 1055
<211> 221
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (207)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1055

```
Arg Arg Gly Phe Gly Gly Val Arg Ala Ser Glu Ala Cys Gly Leu Arg
 1               5                  10                  15

Arg Arg Ala Gly Phe Gly Gly Val Arg Ala Ser Gly Ala Met Gly Thr
            20                  25                  30

Pro Pro Gly Leu Gln Thr Asp Cys Glu Ala Leu Leu Ser Arg Phe Gln
        35                  40                  45

Glu Thr Asp Ser Val Arg Phe Glu Asp Phe Thr Glu Leu Trp Arg Asn
        50                  55                  60

Met Lys Phe Gly Thr Ile Phe Cys Gly Arg Met Arg Asn Leu Glu Lys
 65                  70                  75                  80

Asn Met Phe Thr Lys Glu Ala Leu Ala Leu Ala Trp Arg Tyr Phe Leu
                85                  90                  95

Pro Pro Tyr Thr Phe Gln Ile Arg Val Gly Ala Leu Tyr Leu Leu Tyr
            100                 105                 110

Gly Leu Tyr Asn Thr Gln Leu Cys Gln Pro Lys Gln Lys Ile Arg Val
            115                 120                 125
```

```
Ala Leu Lys Asp Trp Asp Glu Val Leu Lys Phe Gln Gln Asp Leu Val
    130             135             140

Asn Ala Gln His Phe Asp Ala Ala Tyr Ile Phe Arg Lys Leu Arg Leu
145             150             155             160

Asp Arg Ala Phe His Phe Thr Ala Met Pro Lys Leu Leu Ser Tyr Arg
            165             170             175

Met Lys Lys Lys Ile His Arg Ala Glu Val Thr Glu Glu Phe Lys Asp
            180             185             190

Pro Ser Asp Arg Val Met Lys Leu Ile Thr Ser Asp Xaa Leu Xaa Glu
        195             200             205

Met Leu Asn Gly His Asp His Tyr Gln Asn Met Asn Met
    210             215             220


<210> 1056
<211> 59
<212> PRT
<213> Homo sapiens

<400> 1056
Lys Ala Val Arg Ser Met Leu Leu Ser Ser Leu Arg Glu Asn Phe Leu
  1             5               10              15

Asn Asn Thr Arg Lys Arg Lys Ile Gly Leu Phe Ser Leu Leu Val Leu
            20              25              30

Ser Ile Leu Ser Ser Leu Gln Gly Arg Val Ala Lys Leu Trp Gly Leu
        35              40              45

Asn Pro Glu Gly Gly Leu Ser Gly His Gln Thr
    50              55


<210> 1057
<211> 193
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1057

Ser Leu Pro Trp Arg Val Pro Arg Ser Met Glu Thr Phe Asp Pro Thr
 1   5   10   15

Glu Leu Pro Glu Leu Leu Lys Leu Tyr Tyr Arg Arg Leu Phe Pro Tyr
                20   25   30

Ser Gln Tyr Tyr Arg Trp Leu Asn Tyr Gly Gly Val Ile Lys Asn Tyr
            35   40   45

Phe Gln His Arg Glu Phe Ser Phe Thr Leu Lys Asp Asp Ile Tyr Ile
        50   55   60

Arg Tyr Gln Ser Phe Asn Asn Gln Ser Asp Leu Glu Lys Glu Met Gln
 65   70   75   80

Lys Met Asn Pro Tyr Lys Ile Asp Ile Gly Ala Val Tyr Ser His Arg
                85   90   95

Pro Asn Gln His Asn Thr Val Lys Leu Gly Ala Phe Gln Ala Gln Glu
            100   105   110

Lys Glu Leu Val Phe Asp Ile Asp Met Thr Asp Tyr Asp Asp Val Arg
            115   120   125

Arg Cys Cys Ser Ser Ala Asp Ile Cys Pro Lys Cys Trp Thr Leu Met
        130   135   140

Thr Met Ala Ile Arg Ile Ile Asp Arg Ala Leu Lys Glu Asp Phe Gly
145   150   155   160

Phe Lys His Arg Leu Trp Val Tyr Ser Gly Arg Arg Gly Val His Cys
                165   170   175

Trp Val Cys Asp Glu Ser Val Arg Asn Cys Leu Leu Gln Tyr Val Xaa
            180   185   190

Gly

<210> 1058
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1058

Asp Glu Asp Asn Glu Lys Glu Lys Arg Asp Ser Leu Gly Asn Glu Glu
1   5   10   15

Ser Val Asp Lys Thr Ala Cys Glu Cys Val Arg Ser Pro Arg Glu Ser
            20   25   30

Leu Asp Asp Leu Phe Gln Ile Cys Ser Pro Cys Ala Ile Ala Ser Gly
        35   40   45

Leu Arg Xaa Thr Trp Leu Asn
    50   55

<210> 1059
<211> 205
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1059

Arg Val Ser Leu Val Val Thr Glu Thr Val Asp Ala Gly Leu Phe Gly
1   5   10   15

Glu Gly Ile Val Glu Ser Leu Ile His Ala Trp Glu His Leu Leu Leu
            20   25   30

Gln Pro Lys Thr Lys Gly Glu Ser Ala Asn Cys Glu Lys Tyr Gly Lys
        35   40   45

Val Ile Pro Ala Ser Ala Val Ile Phe Gly Met Ala Val Glu Cys Ala
    50   55   60

Glu Ile Arg Arg His His Arg Val Gly Ile Lys Asp Ile Ala Gly Ile
65   70   75   80

His Leu Pro Thr Asn Val Lys Phe Gln Ser Pro Ala Tyr Ser Ser Val
                85   90   95

Asp Thr Glu Glu Thr Ile Glu Pro Tyr Thr Thr Glu Lys Met Ser Arg

```
                 100                    105                    110
   Val Pro Gly Gly Tyr Leu Ala Leu Thr Glu Cys Phe Glu Ile Met Xaa
           115                    120                    125

   Val Asp Phe Asn Asn Leu Gln Glu Leu Lys Ser Leu Ala Thr Lys Lys
           130                    135                    140

   Pro Gly Lys Ile Gly Ile Pro Val Ile Lys Glu Gly Ile Leu Asp Ala
   145                    150                    155                    160

   Val Val Val Trp Phe Val Leu Gln Leu Asp Asp Glu His Ser Leu Ser
                   165                    170                    175

   Thr Ser Pro Asn Glu Glu Thr Cys Trp Glu Gln Ala Val Tyr Pro Val
                   180                    185                    190

   His Asp Leu Ala Asp Tyr Arg Ile Lys Arg Gly Asp Xaa
                   195                    200                    205



   <210> 1060
   <211> 92
   <212> PRT
   <213> Homo sapiens

   <220>
   <221> SITE
   <222> (72)
   <223> Xaa equals any of the naturally occurring L-amino acids

   <400> 1060
   Pro Val Lys Val Trp Glu Gly Leu Arg Glu Lys Arg Ser Val Phe Ser
    1               5                    10                    15

   Ser Gly Ser Gly Ser Cys Lys Leu His Leu Pro Gly Ala Leu Pro Leu
                   20                    25                    30

   Leu Tyr Pro Phe Ala Val Cys Pro Pro Pro Gly Ser Trp Ser Pro
               35                    40                    45

   Ser Cys Ser Asn Ser Phe Cys Ser Tyr Ser Arg Gly Leu Leu Gly Leu
           50                    55                    60

   Leu Ser Pro Val Arg Leu Gly Xaa Ala Leu Gly Ser Trp Val Ser Ser
   65                    70                    75                    80

   Thr Asp His Ala Arg Pro Leu Arg Pro Gln Ile Ile
                   85                    90
```

```
<210> 1061
<211> 295
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (243)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (277)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1061
Ala Glu Ala Ile Pro Leu Ala Asp Gln Pro His Leu Leu Gln Pro Asn
 1               5                   10                  15

Ala Arg Lys Glu Asp Leu Phe Gly Arg Pro Ser Gln Gly Leu Tyr Ser
                20                  25                  30

Ser Ser Ala Ser Ser Gly Lys Cys Leu Met Glu Val Thr Val Asp Arg
            35                  40                  45

Asn Cys Leu Glu Val Leu Pro Thr Lys Met Ser Tyr Ala Ala Asn Leu
        50                  55                  60

Lys Asn Val Met Asn Met Gln Asn Arg Gln Lys Lys Glu Gly Glu Glu
 65                 70                  75                  80

Gln Pro Val Leu Pro Glu Glu Thr Glu Ser Ser Lys Pro Gly Pro Ser
                85                  90                  95

Ala His Asp Leu Ala Ala Gln Leu Lys Ser Ser Leu Leu Ala Glu Ile
            100                 105                 110

Gly Leu Thr Glu Ser Glu Gly Pro Pro Leu Thr Ser Phe Arg Pro Gln
            115                 120                 125

Cys Ser Phe Met Gly Met Val Ile Ser His Asp Met Leu Leu Gly Arg
        130                 135                 140

Trp Arg Leu Ser Leu Glu Leu Phe Gly Arg Val Phe Met Glu Asp Val
145                 150                 155                 160

Gly Ala Glu Pro Gly Ser Ile Leu Thr Glu Leu Gly Gly Phe Glu Val
                165                 170                 175
```

```
Lys Glu Ser Lys Phe Arg Arg Glu Met Glu Lys Leu Arg Asn Gln Gln
        180             185             190

Ser Arg Asp Leu Ser Leu Glu Val Asp Arg Asp Arg Asp Leu Leu Ile
        195             200             205

Gln Gln Thr Met Arg Gln Leu Asn Asn His Phe Gly Arg Arg Cys Ala
        210             215             220

Thr Thr Pro Met Ala Val His Arg Val Lys Val Thr Phe Lys Asp Glu
225             230             235             240

Pro Gly Xaa Gly Ser Gly Val Ala Arg Ser Phe Tyr Thr Ala Ile Ala
        245             250             255

Gln Ala Phe Leu Ser Asn Glu Lys Leu Pro Asn Leu Glu Cys Ile Pro
        260             265             270

Lys Lys Lys Phe Xaa Pro Pro Gln Lys Pro Lys Lys Lys Gly Pro Thr
        275             280             285

Pro Asn His Gln Arg Val Phe
        290             295
```

```
<210> 1062
<211> 35
<212> PRT
<213> Homo sapiens

<400> 1062
Gly Glu Glu His Ile Pro Gln Glu Ala Pro Gln Gly Ala Glu Thr Ala
 1               5               10              15

Leu Ile Pro Ala Asp Ile Thr Glu Lys Gln Gln Ser Leu Phe Asn Phe
                20              25              30

Val Thr Met
        35
```

```
<210> 1063
<211> 210
<212> PRT
<213> Homo sapiens

<400> 1063
Gln Tyr Phe Met Thr Met Asp Gly Asp Ser Ser Thr Thr Asp Ala Ser
 1               5               10              15
```

```
Gln Leu Gly Ile Ser Ala Asp Tyr Ile Gly Gly Ser His Tyr Val Ile
            20                  25                  30

Gln Pro His Asp Asp Thr Glu Asp Ser Met Asn Asp His Glu Asp Thr
            35                  40                  45

Asn Gly Ser Lys Glu Ser Phe Arg Glu Gln Asp Ile Tyr Leu Pro Ile
        50                  55                  60

Ala Asn Val Ala Arg Ile Met Lys Asn Ala Ile Pro Gln Thr Gly Lys
65                  70                  75                  80

Ile Ala Lys Asp Ala Lys Glu Cys Val Gln Glu Cys Val Ser Glu Phe
                85                  90                  95

Ile Ser Phe Ile Thr Ser Glu Ala Ser Glu Arg Cys His Gln Glu Lys
            100                 105                 110

Arg Lys Thr Ile Asn Gly Glu Asp Ile Leu Phe Ala Met Ser Thr Leu
            115                 120                 125

Gly Phe Asp Ser Tyr Val Glu Pro Leu Lys Leu Tyr Leu Gln Lys Phe
    130                 135                 140

Arg Glu Ala Met Lys Gly Glu Lys Gly Ile Gly Gly Ala Val Thr Ala
145                 150                 155                 160

Thr Asp Gly Leu Ser Glu Glu Leu Thr Glu Glu Ala Phe Thr Asn Gln
                165                 170                 175

Leu Pro Ala Gly Leu Ile Thr Thr Asp Gly Gln Gln Gln Asn Val Met
            180                 185                 190

Val Tyr Thr Thr Ser Tyr Gln Gln Ile Ser Gly Val Gln Gln Ile Gln
        195                 200                 205

Phe Ser
210
```

```
<210> 1064
<211> 332
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (315)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (326)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1064
Leu Arg Pro Ser Val Tyr Pro Val Ala Ser Ser Leu Pro Val Pro Asp
 1               5                  10                  15


Leu Ile Leu Arg Gln Arg Leu Leu Gln Asp Pro Val Ala Arg Pro Gln
                20                  25                  30


Ala Met Ala Gly Pro Phe Ser Arg Leu Leu Ser Ala Arg Pro Gly Leu
        35                  40                  45


Arg Leu Leu Ala Leu Ala Gly Ala Gly Ser Leu Ala Ala Gly Phe Leu
    50                  55                  60


Leu Arg Pro Glu Pro Val Arg Ala Ala Ser Glu Arg Arg Arg Leu Tyr
65                  70                  75                  80


Pro Pro Ser Ala Glu Tyr Pro Asp Leu Arg Lys His Asn Asn Cys Met
                85                  90                  95


Ala Ser His Leu Thr Pro Ala Val Tyr Ala Arg Leu Cys Asp Lys Thr
            100                 105                 110


Thr Pro Thr Gly Trp Thr Leu Asp Gln Cys Ile Gln Thr Gly Val Asp
            115                 120                 125


Asn Pro Gly His Pro Phe Ile Lys Thr Val Gly Met Val Ala Gly Asp
    130                 135                 140


Glu Glu Thr Tyr Glu Val Phe Ala Asp Leu Phe Asp Pro Val Ile Gln
145                 150                 155                 160


Glu Arg His Asn Gly Tyr Asp Pro Arg Thr Met Lys His Thr Thr Asp
                165                 170                 175


Leu Asp Ala Ser Lys Ile Arg Ser Gly Tyr Phe Asp Glu Arg Tyr Val
            180                 185                 190


Leu Ser Ser Arg Val Arg Thr Gly Arg Ser Ile Arg Gly Leu Ser Leu
            195                 200                 205
```

```
Pro Pro Ala Cys Thr Arg Ala Xaa Arg Arg Glu Val Glu Arg Val Val
    210             215             220

Val Asp Ala Leu Ser Gly Leu Lys Gly Asp Leu Ala Gly Arg Tyr Tyr
225             230             235             240

Arg Leu Ser Glu Met Thr Glu Ala Glu Gln Gln Gln Leu Ile Asp Asp
                245             250             255

His Phe Leu Phe Asp Lys Pro Val Ser Pro Leu Leu Thr Ala Ala Gly
            260             265             270

Met Ala Arg Asp Trp Pro Asp Ala Arg Gly Ile Trp His Asn Asn Glu
        275             280             285

Lys Ser Phe Leu Ile Trp Val Asn Glu Glu Asp His Thr Arg Val Ile
    290             295             300

Ser Met Glu Lys Gly Gly Asn Met Lys Arg Xaa Phe Glu Arg Ser Ala
305             310             315             320

Glu Ala Ser Lys Arg Xaa Arg Asp Tyr Val Gly Asp
            325             330


<210> 1065
<211> 241
<212> PRT
<213> Homo sapiens

<400> 1065
Ser Phe Phe Phe Lys Val Ser Arg Ser Glu Ala Ser His Arg Met Ile
  1             5               10               15

Leu Leu Asn Asn Ser His Lys Leu Leu Ala Leu Tyr Lys Ser Leu Ala
            20              25              30

Arg Ser Ile Pro Glu Ser Leu Lys Val Tyr Gly Ser Val Tyr His Ile
        35              40              45

Asn His Gly Asn Pro Phe Asn Met Glu Val Leu Val Asp Ser Trp Pro
    50              55              60

Glu Tyr Gln Met Val Ile Ile Arg Pro Gln Lys Gln Glu Met Thr Asp
65              70              75              80

Asp Met Asp Ser Tyr Thr Asn Val Tyr Arg Met Phe Ser Lys Glu Pro
            85              90              95

Gln Lys Ser Glu Glu Val Leu Lys Asn Cys Glu Ile Val Asn Trp Lys
```

```
                 100                 105                 110
Gln Arg Leu Gln Ile Gln Gly Leu Gln Glu Ser Leu Gly Glu Gly Ile
        115                 120                 125

Arg Val Ala Thr Phe Ser Lys Ser Val Lys Val Glu His Ser Arg Ala
        130                 135                 140

Leu Leu Leu Val Thr Glu Asp Ile Leu Lys Leu Asn Ala Ser Ser Lys
145                 150                 155                 160

Ser Lys Leu Gly Ser Trp Ala Glu Thr Gly His Pro Asp Asp Glu Phe
                165                 170                 175

Glu Ser Glu Thr Pro Asn Phe Lys Tyr Ala Gln Leu Asp Val Ser Tyr
                180                 185                 190

Ser Gly Leu Val Asn Asp Asn Trp Lys Arg Gly Lys Asn Glu Arg Ser
                195                 200                 205

Leu His Tyr Ile Lys Arg Cys Ile Glu Asp Leu Pro Ala Ala Cys Met
        210                 215                 220

Leu Gly Pro Glu Glu Ile Pro Val Ser Trp Val Thr Met Gly Pro Phe
225                 230                 235                 240

Leu
```

```
<210> 1066
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1066
Glu Val Leu Arg Asp Cys Xaa Ser Pro Asn Ser Ile Ser Ile Met Gly
  1               5                  10                  15

Leu Asn Thr Ser Arg Val Ala Ile Thr Leu Lys Pro Gln Asp Pro Met
```

```
                    20                      25                      30

    Glu Gln Asn Val Ala Glu Leu Leu Gln Phe Leu Leu Val Lys Asp Gln
             35                      40                      45

    Ser Lys Tyr Pro Ile Arg Glu Ser Glu Met Arg Glu Tyr Ile Val Lys
             50                      55                      60

    Glu Tyr Arg Asn Gln Phe Pro Glu Ile Leu Arg Arg Ala Ala Ala His
    65                      70                      75                      80

    Leu Glu Cys Ile Phe Arg Phe Glu Leu Arg Glu Leu Asp Pro Glu Ala
                    85                      90                      95

    His Thr Tyr Ile Leu Leu Asn Lys Leu Gly Pro Val Pro Phe Glu Gly
                    100                     105                     110

    Leu Glu Glu Ser Pro Asn Gly Pro Lys Met Gly Leu Leu Met Met Ile
             115                     120                     125

    Leu Xaa Gln Ile Phe Leu Asn Gly Asn Gln Ala Lys Glu Ala
             130                     135                     140



    <210> 1067
    <211> 111
    <212> PRT
    <213> Homo sapiens

    <400> 1067
    Thr Arg Ser Ala Gly Ser Arg Gly Gly Ala Trp Thr Pro Ala Trp Gln
     1               5                       10                      15

    Val Pro Pro Arg Glu Arg Gly Ser Arg Cys Ile Ser Ala Ala Phe Ile
                     20                      25                      30

    Thr Asp Leu Gly Leu His Gln Gly Thr Cys Arg Thr Ala Leu Lys Thr
                 35                      40                      45

    Ala Glu Ser Glu Glu Pro Ser Leu Gly Pro Gly Arg Pro Ala Val Gln
             50                      55                      60

    Leu Ala Ser Arg Ile Pro Leu Pro Ala Pro Ala Asp Asp Leu Phe Trp
    65                      70                      75                      80

    Arg Val Glu Asn Val Leu Gly Phe Lys Val Gln Ser Gly Phe Leu Ser
                     85                      90                      95

    Ile His Tyr Ser Cys Leu His Ser Thr Asn Lys Ser Trp Glu Arg
                     100                     105                     110
```

```
<210> 1068
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1068
Leu Leu Tyr Gln Ser Ile Glu Asp Ser Ser Tyr Leu Leu Pro Val Ala
 1               5                  10                  15

Gln Phe Arg Phe Trp Glu Xaa Ala Glu Gln Val Lys His Arg Lys Leu
            20                  25                  30

Lys Arg Arg Asn Pro His Phe Gly Pro Ile Phe Leu Leu Asp Tyr Phe
        35                  40                  45

Leu Ile Ser Ile Leu Pro Ile Val Leu Met Phe
    50                  55
```

```
<210> 1069
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1069
Cys Leu Ala Val Arg Arg His Glu Leu Arg Thr Val His His Gly Ser
 1               5                  10                  15

Glu Arg Xaa Arg Asn Pro Ser Pro Ile Arg Thr Met Thr Asp Ile Leu
            20                  25                  30

Ser Arg Gly Pro Lys Ser Met Ile Ser Leu Ala Gly Gly Leu Pro Asn
        35                  40                  45

Pro Asn Met Phe Pro Phe Lys
    50                  55
```

```
<210> 1070
<211> 369
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (293)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1070
Asp Arg Ser Phe Leu Glu Asp Thr Thr Pro Ala Arg Asp Glu Lys Lys
 1               5                  10                  15

Val Gly Ala Lys Ala Ala Gln Gln Asp Ser Xaa Ser Xaa Gly Glu Ala
            20                  25                  30

Leu Gly Gly Xaa Pro Met Val Ala Xaa Phe Gln Asp Asp Val Asp Leu
            35                  40                  45

Glu Asp Gln Pro Arg Gly Ser Pro Pro Leu Pro Ala Gly Pro Val Pro
        50                  55                  60

Ser Gln Asp Ile Thr Leu Ser Ser Glu Glu Glu Ala Glu Val Ala Ala
65                  70                  75                  80

Pro Thr Lys Gly Pro Ala Pro Ala Pro Gln Gln Cys Ser Glu Pro Glu
                85                  90                  95
```

```
Thr Lys Trp Ser Ser Ile Pro Ala Ser Lys Pro Arg Arg Gly Thr Ala
        100             105             110

Pro Thr Arg Thr Ala Ala Pro Pro Trp Pro Gly Gly Val Ser Val Arg
        115             120             125

Thr Gly Pro Glu Lys Arg Ser Ser Thr Arg Pro Pro Ala Glu Met Glu
    130             135             140

Pro Gly Lys Gly Glu Gln Ala Ser Ser Ser Glu Ser Asp Pro Glu Gly
145             150             155             160

Pro Ile Ala Ala Gln Met Leu Ser Phe Val Met Asp Asp Pro Asp Phe
            165             170             175

Glu Ser Glu Gly Ser Asp Thr Gln Arg Arg Ala Asp Asp Phe Pro Val
            180             185             190

Arg Asp Asp Pro Ser Asp Val Thr Asp Glu Asp Glu Gly Pro Ala Glu
        195             200             205

Pro Pro Pro Pro Pro Lys Leu Pro Leu Pro Ala Phe Arg Leu Lys Asn
    210             215             220

Asp Ser Asp Leu Phe Gly Leu Gly Leu Glu Glu Ala Gly Pro Lys Glu
225             230             235             240

Ser Ser Glu Glu Gly Lys Glu Gly Lys Thr Pro Ser Lys Glu Lys Lys
            245             250             255

Lys Lys Lys Lys Lys Gly Lys Glu Glu Glu Glu Lys Ala Ala Lys Lys
        260             265             270

Lys Ser Lys His Lys Lys Ser Lys Asp Lys Glu Glu Gly Lys Glu Glu
    275             280             285

Arg Arg Arg Arg Xaa Gln Arg Pro Pro Arg Ser Arg Glu Arg Thr Ala
    290             295             300

Ala Asp Glu Leu Glu Ala Phe Leu Gly Gly Gly Ala Arg Ala Ala Ala
305             310             315             320

Thr Leu Gly Val Ala Thr Thr Arg Ser Ser Arg Pro Ala Trp Ala Val
            325             330             335

Ala Ala Leu Gly Arg Gly Ala Cys Leu Ser Leu Pro Gly Glu Ala Phe
        340             345             350

Ala Ser Val Pro Ser Pro Leu Pro Leu Pro Arg Gly Cys Arg Val Arg
        355             360             365
```

Phe

<210> 1071
<211> 209
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (202)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1071
Glu Arg Leu Tyr Pro Ala Val Val Val Gly Gly Arg Ala Val Glu Gln
 1   5   10   15

Gln His Arg Arg Gly Ser Arg Glu Ala Gly Ser Ala Arg Ala Glu Met
            20   25   30

Trp Asn Leu Leu His Glu Thr Asp Ser Ala Val Ala Thr Ala Arg Arg
            35   40   45

Pro Arg Trp Leu Cys Ala Gly Ala Leu Val Leu Ala Gly Gly Phe Phe
        50   55   60

Leu Leu Gly Phe Leu Phe Gly Trp Phe Ile Lys Ser Ser Asn Glu Ala
 65   70   75   80

```
Thr Asn Ile Thr Pro Lys His Asn Met Lys Ala Phe Leu Asp Glu Leu
                85              90              95

Lys Ala Glu Asn Ile Lys Lys Phe Leu Tyr Asn Phe Thr Gln Ile Pro
            100             105             110

His Leu Ala Gly Thr Glu Gln Asn Phe Gln Leu Ala Lys Gln Ile Gln
        115             120             125

Ser Gln Trp Lys Glu Phe Gly Leu Asp Ser Val Glu Leu Ala His Tyr
    130             135             140

Asp Val Leu Leu Ser Tyr Pro Asn Lys Thr His Pro Asn Tyr Ile Ser
145             150             155             160

Ile Ile Asn Glu Asp Gly Asn Glu Ile Phe Asn Thr Ser Leu Phe Glu
            165             170             175

Pro Pro Xaa Xaa Gly Tyr Glu Asn Gly Ser Asp Ile Xaa Pro Pro Phe
            180             185             190

Ser Ala Phe Ser Pro Gln Gly Met Pro Xaa Gly Asp Leu Val Tyr Xaa
    195             200             205

Asn
```

```
<210> 1072
<211> 135
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1072
Leu Gln Gly Leu Leu Ile Asn Pro Leu Thr Leu Ser Pro Ser Asn Thr
```

```
       1                      5                         10                        15
     Val Ser Gln Ser Leu Phe Phe Trp Leu Gly Phe Tyr Ile Lys Leu Ser
                 20                      25                      30

     Ile Leu Ser Asn Asp Leu Ser Leu Leu Pro Phe Leu Leu His Ile Pro
                 35                      40                      45

     Ile Lys Thr Phe Phe Val Phe Asn Ser Cys His Leu Asp Ser Arg Thr
                 50                      55                      60

     Ser Ser Ile Pro His Val Cys Ser Leu Leu Cys Gln Pro Arg Pro Phe
         65                  70                      75                  80

     Leu Tyr Pro Pro Ala Trp Xaa Cys Cys Pro Leu Cys Ser Xaa Leu Thr
                     85                      90                      95

     Arg Tyr Lys Glu His Glu Asp Gly Tyr Met Arg Leu Gln Leu Val Arg
                 100                     105                     110

     Xaa Glu Ser Val Glu Leu Thr Gln Gln Leu Leu Arg Gln Pro Gln Glu
                 115                     120                     125

     Gly Ser Gly Trp Glu Arg Arg
         130                 135
```

```
<210> 1073
<211> 135
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1073
     Pro Ser Asp Val Asn Val Met Ala Glu Ser Leu Lys Asp Met Glu Ala
         1                   5                       10                      15

     Asp Ala Gln Lys Leu Tyr Gln Leu Ile Trp Arg Gln Phe Val Ala Cys
                 20                      25                      30

     Gln Met Thr Pro Ala Lys Tyr Asp Ser Thr Thr Leu Thr Val Gly Xaa
```

```
                35                        40                        45

   Gly Asp Phe Arg Leu Lys Ala Arg Gly Arg Ile Leu Arg Phe Asp Gly
        50                    55                    60

   Trp Thr Lys Val Met Pro Ala Leu Arg Lys Gly Asp Glu Asp Arg Ile
   65                    70                    75                    80

   Leu Pro Ala Val Asn Lys Gly Asp Ala Leu Thr Leu Val Glu Leu Thr
                    85                    90                    95

   Pro Ala Gln His Phe Thr Lys Pro Pro Ala Arg Phe Ser Glu Ala Ser
                    100                   105                   110

   Leu Val Lys Glu Leu Glu Lys Arg Gly Ile Gly Arg Pro Ser Xaa Tyr
                115                   120                   125

   Ala Ser Ile Ile Ser Thr Ile
        130                   135
```

<210> 1074
<211> 410
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (248)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (300)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (372)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1074
Arg Asn Lys Arg Glu Glu Lys Lys Ala Gln Asn Ser Glu Xaa Arg Met
 1   5   10   15

Lys Arg Ala Gln Xaa Tyr Asp Ser Ser Phe Pro Asn Trp Glu Phe Ala
            20   25   30

Arg Met Ile Lys Glu Phe Arg Ala Thr Leu Glu Cys His Pro Leu Thr
        35   40   45

Met Thr Asp Pro Ile Glu Glu His Arg Ile Cys Val Cys Val Arg Lys
    50   55   60

Arg Pro Leu Asn Lys Gln Glu Leu Ala Lys Lys Glu Ile Asp Val Ile
65   70   75   80

Ser Ile Pro Ser Lys Cys Leu Leu Leu Val His Glu Pro Lys Leu Lys
                85   90   95

Val Asp Leu Thr Lys Tyr Leu Glu Asn Gln Ala Phe Cys Phe Asp Phe
            100   105   110

Ala Phe Asp Glu Thr Ala Ser Asn Glu Val Val Tyr Arg Phe Thr Ala
            115   120   125

Arg Pro Leu Val Gln Thr Ile Phe Glu Gly Gly Lys Ala Thr Cys Phe
    130   135   140

Ala Tyr Gly Gln Thr Gly Ser Gly Lys Thr His Thr Met Gly Gly Asp
145   150   155   160

Leu Ser Gly Lys Ala Gln Asn Ala Ser Lys Gly Ile Tyr Ala Met Ala
            165   170   175

Xaa Arg Asp Val Phe Leu Leu Lys Asn Gln Pro Cys Tyr Arg Lys Leu
            180   185   190

Gly Leu Glu Val Tyr Val Thr Phe Phe Glu Ile Tyr Asn Gly Lys Leu
        195   200   205

Phe Asp Leu Leu Asn Lys Lys Ala Lys Leu Arg Val Leu Glu Asp Gly
    210   215   220

Lys Gln Gln Val Gln Val Val Gly Leu Gln Glu His Leu Val Asn Ser
225   230   235   240

```
Ala Asp Asp Val Ile Lys Met Xaa Asp Met Gly Ser Ala Cys Arg Thr
                245             250                 255

Ser Gly Gln Thr Phe Ala Asn Ser Asn Ser Ser Arg Ser His Ala Cys
                260             265             270

Phe Gln Ile Ile Leu Arg Ala Lys Gly Arg Met His Gly Lys Phe Ser
                275             280             285

Leu Val Asp Leu Ala Gly Asn Glu Arg Gly Ala Xaa Thr Ser Ser Ala
                290             295             300

Asp Arg Gln Thr Arg Met Glu Gly Ala Glu Ile Asn Lys Ser Leu Leu
305                 310             315                 320

Ala Leu Lys Glu Cys Ile Arg Ala Leu Gly Gln Asn Lys Ala His Thr
                325             330             335

Pro Phe Arg Glu Ser Lys Leu Thr Gln Val Leu Arg Asp Ser Phe Ile
                340             345             350

Gly Glu Asn Ser Arg Thr Cys Met Ile Ala Thr Ile Ser Pro Gly Ile
                355             360             365

Ser Ser Cys Xaa Ile Tyr Phe Lys His Pro Glu Ile Cys Arg Gln Gly
    370             375             380

Gln Gly Ala Glu Pro Pro Gln Trp Ala Gln Trp Arg Ala Val Asp Ser
385                 390             395                 400

Asn Gly Asn Arg Arg Asp Gly Ser Leu Leu
                405             410
```

```
<210> 1075
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1075

```
Leu Pro Phe Phe Arg Leu Ser Phe Ala Pne Val Leu Arg Gly Phe Arg
 1               5               10              15

Asn Thr Ala Gln Asn Tyr Arg Glu Asn Thr Pro Ala Arg Ala Leu Ser
             20              25              30

Arg Thr Arg Cys Ala Ala Ser Val Trp Leu Ala Ser Ser Ser Gln Phe
         35              40              45

Pro Thr His Arg Leu Arg Ser Ser Asn Ser His Asp Ile Cys Ser Thr
     50              55              60

Arg Arg Arg Ile Arg Cys Arg Val Leu Ala Arg Pro Phe Ser Ser Ala
 65              70              75              80

Cys Cys Xaa His Arg Cys Val Thr Arg Asn Arg Arg Ala Glu Gln His
             85              90              95

Asp Val Arg Phe Gly Glu Leu His Gln Pro Tyr Pro Gln Ala Gly Ala
         100             105             110

Ala Gly Val Ser Arg Gly Arg Gly Glu Ala Ala Val Gly Asp Arg Trp
         115             120             125

Glu Val Gly Arg Pro Gly Leu Gly Gly Ile Leu Gly Ala Gly Glu Glu
     130             135             140

Met Arg Ala Pro Glu Arg Pro Arg Val Arg Arg Arg Arg Leu Glu Pro
145             150             155             160

Ser Arg Cys Cys Gly Pro Xaa Gly Pro Phe His Phe Ala Cys Lys Thr
             165             170             175

Gln Ile Lys Thr Gln Cys Asp Tyr Ser Glu Leu Phe Cys Leu Lys Lys
             180             185             190

Asn Val Arg Ser
         195
```

<210> 1076
<211> 31
<212> PRT
<213> Homo sapiens

<400> 1076

```
Gln Leu Thr Leu Asn Ile Ser Leu Leu Leu Ser Leu Ser Leu Ser Phe
 1               5               10              15
```

```
      Phe Phe Asn Met Val Lys Leu Asp Gln Gly Ser Glu His Arg Phe
                   20                  25                  30



      <210> 1077
      <211> 87
      <212> PRT
      <213> Homo sapiens

      <400> 1077
      Asn Cys Pro Asn Pro His Leu His Lys Asn Leu Ser Pro Val His Lys
       1               5                  10                  15


      Ala Asp His Glu Ala Ile Ile Phe Leu Glu Gly Phe Leu Ala Cys Ser
                   20                  25                  30


      Pro Val Ala Ser Ala Ala Leu Ala Leu Cys His Ser Glu Pro Lys Gly
                   35                  40                  45


      Lys Val Met Glu Gln His His Ile Cys Arg Leu Ser Val Leu Phe Gly
               50                  55                  60


      Glu Gly Lys Gly Arg Glu Cys Arg Arg Met Lys Lys Phe Leu Pro Thr
       65                  70                  75                  80


      Ala Ser Ile Leu Ile Phe Leu
                   85



      <210> 1078
      <211> 85
      <212> PRT
      <213> Homo sapiens

      <220>
      <221> SITE
      <222> (65)
      <223> Xaa equals any of the naturally occurring L-amino acids

      <220>
      <221> SITE
      <222> (78)
      <223> Xaa equals any of the naturally occurring L-amino acids

      <400> 1078
      Pro Asp Gln Gly Gly Asp Glu Gly Ile Leu Ser Ser Arg Thr Cys Arg
       1               5                  10                  15


      Gly Thr Arg Gln Gly Pro His Pro Arg Gly Asp Pro Val Ala Arg His
```

                    20   25   30

Ile Met Gly Thr Ala Gly Trp Pro Gln Ala Ser Ala Pro Leu Leu Pro
         35   40   45

Cys Arg Gln Gly Leu Leu Glu Pro Cys Ala His Pro Gly Leu Leu Arg
         50   55   60

Xaa Gln Pro Cys Thr Glu Ser Ala Asp Val Pro Cys Leu Xaa Thr Arg
65   70   75   80

Pro Leu Cys Pro Leu
                   85

<210> 1079
<211> 594
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (430)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1079
Cys Cys Leu Arg Phe Ser Phe Thr Phe Thr Glu Met Ser Tyr Gly Glu
 1   5   10   15

Ile Glu Gly Lys Phe Leu Gly Pro Arg Glu Glu Val Thr Ser Glu Pro
             20   25   30

Arg Cys Lys Lys Leu Lys Ser Thr Thr Glu Ser Tyr Val Phe His Asn
         35   40   45

His Ser Asn Ala Asp Phe His Arg Ile Gln Glu Lys Thr Gly Asn Asp
         50   55   60

Trp Val Pro Val Thr Ile Ile Asp Val Arg Gly His Ser Tyr Leu Gln
65   70   75   80

Glu Asn Lys Ile Lys Thr Thr Asp Leu His Arg Pro Leu His Asp Glu
                   85   90   95

Met Pro Gly Asn Arg Pro Asp Val Ile Glu Ser Ile Asp Ser Gln Val
             100   105   110

Leu Gln Glu Ala Arg Pro Pro Leu Val Ser Ala Asp Asp Glu Ile Tyr
             115   120   125

```
Ser Thr Ser Lys Ala Phe Ile Gly Pro Ile Tyr Lys Pro Pro Glu Lys
    130             135             140

Lys Lys Arg Asn Glu Gly Arg Asn Glu Ala His Val Leu Asn Gly Ile
    145             150             155             160

Asn Asp Arg Gly Gly Gln Lys Glu Lys Gln Lys Phe Asn Ser Glu Lys
                165             170             175

Ser Glu Ile Asp Asn Glu Leu Phe Gln Phe Tyr Lys Glu Ile Glu Glu
            180             185             190

Leu Glu Lys Glu Lys Asp Gly Phe Glu Asn Ser Cys Lys Glu Ser Glu
        195             200             205

Pro Ser Gln Glu Gln Phe Val Pro Phe Tyr Glu Gly His Asn Asn Gly
    210             215             220

Leu Leu Lys Pro Asp Glu Glu Lys Lys Asp Leu Ser Asn Lys Ala Met
225             230             235             240

Pro Ser His Cys Asp Tyr Gln Gln Asn Leu Gly Asn Glu Pro Asp Lys
                245             250             255

Tyr Pro Cys Asn Gly Gln Val Ile Pro Thr Phe Cys Asp Thr Ser Phe
            260             265             270

Thr Ser Phe Arg Pro Glu Trp Gln Ser Val Tyr Pro Phe Ile Val Pro
        275             280             285

Tyr Gly Pro Pro Leu Pro Ser Leu Asn Tyr His Leu Asn Ile Gln Arg
    290             295             300

Phe Ser Gly Pro Pro Asn Pro Pro Ser Asn Ile Phe Gln Ala Gln Asp
305             310             315             320

Asp Ser Gln Ile Gln Asn Gly Tyr Tyr Val Asn Asn Cys His Val Asn
            325             330             335

Trp Asn Cys Met Thr Phe Asp Gln Asn Asn Glu Tyr Thr Asp Cys Ser
            340             345             350

Glu Asn Arg Ser Ser Val His Pro Ser Gly Asn Gly Cys Ser Met Gln
        355             360             365

Asp Arg Tyr Val Ser Asn Gly Phe Cys Glu Val Arg Glu Arg Cys Trp
    370             375             380

Lys Asp His Cys Met Asp Lys His Asn Gly Thr Asp Arg Phe Val Asn
385             390             395             400
```

```
Gln Gln Phe Gln Glu Glu Lys Leu Asn Lys Leu Gln Lys Leu Leu Ile
            405             410             415

Leu Leu Arg Gly Leu Pro Gly Ser Gly Lys Thr Thr Leu Xaa Arg Ile
            420             425             430

Leu Leu Gly Gln Asn Arg Asp Gly Ile Val Phe Ser Thr Asp Asp Tyr
            435             440             445

Phe His His Gln Asp Gly Tyr Arg Tyr Asn Val Asn Gln Leu Gly Asp
    450             455             460

Ala His Asp Trp Asn Gln Asn Arg Ala Lys Gln Ala Ile Asp Gln Gly
465             470             475             480

Arg Ser Pro Val Ile Ile Asp Asn Thr Asn Ile Gln Ala Trp Glu Met
            485             490             495

Lys Pro Tyr Val Glu Val Ala Ile Gly Lys Gly Tyr Arg Val Glu Phe
            500             505             510

His Glu Pro Glu Thr Trp Trp Lys Phe Asp Pro Glu Glu Leu Glu Lys
            515             520             525

Arg Asn Lys His Gly Val Ser Arg Lys Lys Ile Ala Gln Met Leu Asp
    530             535             540

Arg Tyr Glu Tyr Gln Met Ser Ile Ser Ile Val Met Asn Ser Val Glu
545             550             555             560

Pro Ser His Lys Ser Thr Gln Arg Pro Pro Pro Gln Gly Arg Gln
            565             570             575

Arg Trp Gly Gly Ser Leu Gly Ser His Asn Arg Val Cys Val Thr Asn
            580             585             590

Asn His
```

```
<210> 1080
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1080
Leu His Ile Lys Ile Leu Gln Ile Glu Lys Tyr Ile Lys Tyr Ala Met
 1               5                  10                  15

Gly Leu Thr Phe Tyr Gln Asn Ser His Met Ile Ser Phe Ile Ser Ser
                20                  25                  30

Gly Ser Phe Arg Val Pro Ile Ala Leu Pro Ile Phe Thr Tyr Phe Ile
            35                  40                  45

Asn Leu His Xaa Gly Ile Xaa Ser Leu Phe Xaa Phe Phe
        50                  55                  60


<210> 1081
<211> 302
<212> PRT
<213> Homo sapiens

<400> 1081
Ala Pro Pro Ala Leu Leu Glu Ala Glu Val Cys Leu Leu Arg Val Gly
 1               5                  10                  15

Pro Glu Ala Trp Ser Phe Ser Ala Ser Leu Thr Pro Val Ala Leu Gly
                20                  25                  30

Ser Ala Leu Ala Tyr Arg Ser His Gly Val Leu Asp Pro Arg Leu Leu
            35                  40                  45

Val Gly Cys Ala Val Ala Val Leu Ala Val His Gly Ala Gly Asn Leu
        50                  55                  60

Val Asn Thr Tyr Tyr Asp Phe Ser Lys Gly Ile Asp His Lys Lys Ser
65                  70                  75                  80

Asp Asp Arg Thr Leu Val Asp Arg Ile Leu Glu Pro Gln Asp Val Val
                85                  90                  95

Arg Phe Gly Val Phe Leu Tyr Thr Leu Gly Cys Val Cys Ala Ala Cys
            100                 105                 110
```

```
Leu Tyr Tyr Leu Ser Pro Leu Lys Leu Glu His Leu Ala Leu Ile Tyr
    115             120             125

Phe Gly Gly Leu Ser Gly Ser Phe Leu Tyr Thr Gly Gly Ile Gly Phe
    130             135             140

Lys Tyr Val Ala Leu Gly Asp Leu Ile Ile Leu Ile Thr Phe Gly Pro
145             150             155             160

Leu Ala Val Met Phe Ala Tyr Ala Ile Gln Val Gly Ser Leu Ala Ile
            165             170             175

Phe Pro Leu Val Tyr Ala Ile Pro Leu Ala Leu Ser Thr Glu Ala Ile
            180             185             190

Leu His Ser Asn Asn Thr Arg Asp Met Glu Ser Asp Arg Glu Ala Gly
    195             200             205

Ile Val Thr Leu Ala Ile Leu Ile Gly Pro Thr Phe Ser Tyr Ile Leu
    210             215             220

Tyr Asn Thr Leu Leu Phe Leu Pro Tyr Leu Val Phe Ser Ile Leu Ala
225             230             235             240

Thr His Cys Thr Ile Ser Leu Ala Leu Pro Leu Leu Thr Ile Pro Met
            245             250             255

Ala Phe Ser Leu Glu Arg Gln Phe Arg Ser Gln Ala Phe Asn Lys Leu
            260             265             270

Pro Gln Arg Thr Ala Lys Leu Asn Leu Leu Leu Gly Leu Phe Tyr Val
            275             280             285

Phe Gly Ile Ile Leu Ala Pro Ala Gly Ser Leu Pro Lys Ile
    290             295             300
```

```
<210> 1082
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1082
Gln Asp Val Ser Glu Met Asp Val Xaa Phe Leu Leu Ile Gln Leu Ser
 1   5   10   15

Cys Tyr Phe Ser Ser Gly Ser Cys Gly Lys Val Leu Val Trp Pro Thr
                20   25   30

Glu Tyr Ser His Trp Ile Asn Met Lys Thr Ile Leu Glu Glu Leu Val
            35   40   45

Gln Arg Gly His Glu Val Thr Val Val Xaa Ile Xaa Gly Phe Tyr Ser
       50   55   60

Cys Gln Cys Gln
 65

<210> 1083
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1083
Xaa Pro Pro Gly Gly Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu
 1   5   10   15

Gln Val Arg Ala Ile Arg Leu Ala Leu Glu Gly Val Asp Val Lys Leu
                20   25   30

Glu Gln Ala Ala Arg Thr Leu Gly Ala Gly Arg Trp Arg Val Phe Phe
            35   40   45

Thr Ile Thr Leu Pro Leu Thr Leu Pro Gly Ile Ile Val Gly Thr Val
       50   55   60

Leu Ala Phe Ala Arg Ser Leu Gly Glu Phe Gly Ala His His Leu Cys
 65   70   75   80

```
Val Glu His Ser Trp
                 85


<210> 1084
<211> 166
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1084
Pro Pro Ser Ala Ser Ser Val Ala Gly Asp Leu Gly Arg Gly Thr Arg
 1               5                  10                  15

Thr Glu Val Glu Ala Arg Ala Ala Arg Pro Gly Ala Glu Ser Ala Pro
             20                  25                  30

Ala Ala Ala Met Pro Asp Ser Trp Asp Lys Asp Val Tyr Pro Glu Pro
         35                  40                  45
```

```
Pro Arg Arg Thr Pro Val Gln Pro Asn Pro Ile Val Tyr Met Met Lys
    50              55              60

Ala Phe Asp Leu Ile Val Asp Arg Pro Val Thr Leu Val Arg Glu Phe
65              70              75              80

Ile Glu Arg Gln His Ala Lys Asn Arg Tyr Tyr Tyr Tyr His Arg Gln
            85              90              95

Tyr Arg Arg Val Pro Asp Ile Thr Glu Cys Lys Glu Glu Asp Ile Met
        100             105             110

Cys Ile Lys Xaa Asp Gln Glu Ile Ile Thr Leu Cys Arg Ile Gly Ser
        115             120             125

Lys Xaa Xaa Ser Arg Gly Lys Asp Arg Leu Pro Ala Asp Cys Ile Lys
    130             135             140

Glu Xaa Glu Gln Leu Pro Arg Trp Pro Arg Leu Pro Gly Thr Xaa Ile
145             150             155             160

Arg Thr Xaa Gly Pro Thr
            165
```

<210> 1085
<211> 392
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (386)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1085
```
Met Glu Leu Val Ala Gly Cys Tyr Glu Gln Val Leu Phe Gly Phe Ala
  1             5               10              15

Val His Pro Glu Pro Glu Ala Cys Gly Asp His Glu Gln Trp Thr Leu
            20              25              30

Val Ala Asp Phe Thr His His Ala His Thr Ala Ser Leu Ser Ala Val
            35              40              45

Ala Val Asn Ser Arg Phe Val Val Thr Gly Ser Lys Asp Glu Thr Ile
    50              55              60

His Ile Tyr Asp Met Lys Lys Lys Ile Glu His Gly Ala Leu Val His
65              70              75              80
```

His Ser Gly Thr Ile Thr Cys Leu Lys Phe Tyr Gly Asn Arg His Leu
                85   90   95

Ile Ser Gly Ala Glu Asp Gly Leu Ile Cys Ile Trp Asp Ala Lys Lys
              100   105   110

Trp Glu Cys Leu Lys Ser Ile Lys Ala His Lys Gly Gln Val Thr Phe
              115   120   125

Leu Ser Ile His Pro Ser Gly Lys Leu Ala Leu Ser Val Gly Thr Asp
              130   135   140

Lys Thr Leu Arg Thr Trp Asn Leu Val Glu Gly Arg Ser Ala Phe Ile
145   150   155   160

Lys Asn Ile Lys Gln Asn Ala His Ile Val Glu Trp Ser Pro Arg Gly
              165   170   175

Glu Gln Tyr Val Val Ile Ile Gln Asn Lys Ile Asp Ile Tyr Gln Leu
              180   185   190

Asp Thr Ala Ser Ile Ser Gly Thr Ile Thr Asn Glu Lys Arg Ile Ser
              195   200   205

Ser Val Lys Phe Leu Ser Glu Ser Val Leu Ala Val Ala Gly Asp Glu
              210   215   220

Glu Val Ile Arg Phe Phe Asp Cys Asp Ser Leu Val Cys Leu Cys Glu
225   230   235   240

Phe Lys Ala His Glu Asn Arg Val Lys Asp Met Phe Ser Phe Glu Ile
              245   250   255

Pro Glu His His Val Ile Val Ser Ala Ser Ser Asp Gly Phe Ile Lys
              260   265   270

Met Trp Lys Leu Lys Gln Asp Lys Lys Val Pro Pro Ser Leu Leu Cys
              275   280   285

Glu Ile Asn Thr Asn Ala Arg Leu Thr Cys Leu Gly Val Trp Leu Asp
              290   295   300

Lys Val Ala Asp Met Lys Glu Ser Leu Pro Pro Ala Ala Glu Pro Ser
305   310   315   320

Pro Val Ser Lys Glu Gln Ser Lys Ile Gly Lys Lys Glu Pro Gly Asp
              325   330   335

Thr Val His Lys Glu Glu Lys Arg Ser Lys Pro Asn Thr Lys Lys Arg
              340   345   350

```
Gly Leu Thr Gly Asp Ser Lys Lys Ala Thr Lys Glu Ser Gly Leu Ile
        355             360             365

Ser Thr Lys Lys Arg Lys Met Val Glu Met Leu Glu Lys Lys Arg Lys
        370             375             380

Lys Xaa Lys Ile Lys Thr Met Gln
385             390
```

```
<210> 1086
<211> 238
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1086
Ala Gly Thr Met His Gly Arg Leu Lys Val Lys Thr Ser Glu Glu Gln
 1               5               10              15

Ala Glu Ala Lys Arg Leu Glu Arg Glu Gln Lys Leu Lys Leu Tyr Gln
            20              25              30

Ser Ala Thr Gln Ala Val Phe Gln Lys Arg Gln Ala Gly Glu Leu Asp
        35              40              45

Glu Ser Val Leu Glu Leu Thr Ser Gln Ile Leu Gly Ala Asn Pro Asp
    50              55              60

Phe Ala Thr Leu Trp Asn Cys Arg Arg Glu Val Leu Gln Gln Leu Glu
65              70              75              80

Thr Gln Lys Ser Pro Glu Glu Leu Ala Ala Leu Val Lys Ala Glu Leu
            85              90              95

Gly Phe Leu Glu Ser Cys Leu Arg Val Asn Pro Lys Ser Tyr Gly Thr
            100             105             110

Trp His His Arg Cys Trp Leu Leu Gly Xaa Leu Pro Glu Pro Asn Trp
        115             120             125

Thr Arg Glu Leu Glu Leu Cys Ala Arg Phe Leu Glu Val Asp Glu Arg
    130             135             140

Asn Phe His Cys Trp Asp Tyr Arg Arg Phe Val Ala Thr Gln Ala Ala
```

```
145                    150                    155                    160

Val Pro Pro Ala Glu Glu Leu Ala Phe Thr Asp Ser Leu Ile Thr Arg
                165                    170                    175

Asn Phe Ser Asn Tyr Ser Ser Trp His Tyr Arg Ser Cys Leu Leu Pro
                180                    185                    190

Gln Leu His Pro Gln Pro Asp Ser Gly Pro Gln Gly Arg Leu Pro Glu
            195                    200                    205

Asp Val Leu Leu Lys Glu Leu Glu Leu Val Gln Asn Ala Ser Ser Leu
        210                    215                    220

Thr Pro Met Thr Arg Val Pro Gly Phe Ile Thr Val Gly Ser
225                    230                    235
```

```
<210> 1087
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1087
Leu Pro Ile Gln Ile Ser Leu Glu Leu Asp Arg Cys Phe Arg Gly Ala
  1                5                    10                    15

Ala Leu Glu Arg Gly Phe Gly Leu Cys Lys Gly Arg Lys Glu Val Gln
                20                    25                    30

Lys Asn Gly Val Gly Gly Ser Ala Gly Arg Leu Leu Lys Cys Gly Arg
                35                    40                    45

Trp Lys Leu Gly Gly Glu Ile Lys Gly Thr Xaa Asp Gln Leu Val Cys
        50                    55                    60

Ser Tyr Gln Gly Asp Pro Phe Gln Ser Lys Ser His Met Xaa Val
        65                    70                    75
```

<210> 1088
<211> 257
<212> PRT
<213> Homo sapiens

<400> 1088
Ile Pro Val His Leu Val Ser Ser Ser Ser Asn Leu Glu Arg Phe Thr
 1   5   10   15

Ser Arg Arg Ala Pro Gly Val Gly Leu Tyr Asn Leu Lys Thr Leu Leu
               20   25   30

Phe Phe Ser Ser Val Gln Trp Val Leu Ile Pro Thr Met Ala Ile Thr
           35   40   45

Gln Phe Arg Leu Phe Lys Phe Cys Thr Cys Leu Ala Thr Val Phe Ser
       50   55   60

Phe Leu Lys Arg Leu Ile Cys Arg Ser Gly Arg Gly Arg Lys Leu Ser
 65   70   75   80

Gly Asp Gln Ile Thr Leu Pro Thr Thr Val Asp Tyr Ser Ser Val Pro
               85   90   95

Lys Gln Thr Asp Val Glu Glu Trp Thr Ser Trp Asp Glu Asp Ala Pro
               100   105   110

Thr Ser Val Lys Ile Glu Gly Gly Asn Gly Asn Val Ala Thr Gln Gln
           115   120   125

Asn Ser Leu Glu Gln Leu Glu Pro Asp Tyr Phe Lys Asp Met Thr Pro
       130   135   140

Thr Ile Arg Lys Thr Gln Lys Ile Val Ile Lys Lys Arg Glu Pro Leu
145   150   155   160

Asn Phe Gly Ile Pro Asp Gly Ser Thr Gly Phe Ser Ser Arg Leu Ala
               165   170   175

Ala Thr Gln Asp Leu Pro Phe Ile His Gln Ser Ser Glu Leu Gly Asp
               180   185   190

Leu Asp Thr Trp Gln Glu Asn Thr Asn Ala Trp Glu Glu Glu Glu Asp
           195   200   205

Ala Ala Trp Gln Ala Glu Glu Val Leu Arg Gln Gln Lys Leu Ala Asp
       210   215   220

Arg Glu Lys Arg Ala Ala Glu Gln Gln Arg Lys Lys Met Glu Lys Glu
225   230   235   240

```
Ala Gln Arg Leu Met Lys Lys Glu Gln Asn Lys Ile Gly Val Lys Leu
                245                 250                 255

Ser
```

```
<210> 1089
<211> 44
<212> PRT
<213> Homo sapiens

<400> 1089
Asn Ser Ala Arg Ala Asp Leu Arg Ala Ile Asn Ala Asn Leu Asn Glu
  1               5                  10                  15

Lys Met Glu Ser Leu Thr Ala Val Ser Val Ser Ser Ile Ser Leu Ser
                20                  25                  30

Asn Ser Cys Pro Ser Leu Thr Val Leu Val Ser Val
                35                  40
```

```
<210> 1090
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1090
Gly Arg Pro Ala Cys Ala Arg Glu Pro Gly Leu Glu Pro Tyr Leu Gln
  1               5                  10                  15

Val Pro Asn Leu Arg Leu Xaa Ser Leu Ser Leu Pro Gln Pro Arg Thr
                20                  25                  30

Lys Thr Ser Pro Pro Glu Gly Leu Pro Gln Leu Arg Glu Arg Ser Arg
                35                  40                  45
```

```
Ser Ser Leu Gly Pro Gly Cys Ala Pro Gly Ala Gly Ser Asp Val Val
     50              55              60

Ser Ser Pro Leu Arg Thr Gly Pro Ala Arg Ser Ser Trp Pro Pro Ser
 65              70              75              80

Arg Ala Pro Ser Xaa Pro Pro Ser Ser Thr Ala Thr Thr Cys Arg Trp
             85              90              95
```

```
<210> 1091
<211> 131
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1091
Lys Ala Lys Phe Asn Ile Thr Gly Ala Cys Leu Asn Asp Ser Asp Asp
 1               5              10              15

Asp Ser Pro Asp Leu Asp Leu Asp Gly Asn Glu Ser Xaa Leu Ala Leu
             20              25              30

Leu Met Ser Asn Gly Xaa Thr Lys Arg Val Lys Ser Leu Ser Lys Ser
             35              40              45

Arg Arg Thr Lys Ile Ala Lys Lys Val Asp Lys Ala Arg Leu Met Ala
     50              55              60
```

```
Glu Gln Val Met Glu Asp Glu Phe Asp Leu Xaa Ser Asp Xaa Glu Leu
65              70              75              80

Gln Ile Asp Glu Arg Leu Gly Lys Glu Lys Ala Thr Leu Ile Ile Arg
            85              90              95

Pro Lys Phe Pro Arg Lys Leu Pro Arg Ala Asn Leu Ala Leu Thr Pro
            100             105             110

Thr Glu Phe Val Asn Gln Glu Lys Leu Ser Leu Thr Leu Arg Arg Ile
        115             120             125

Tyr Asn Arg
    130
```

```
<210> 1092
<211> 158
<212> PRT
<213> Homo sapiens

<400> 1092
Leu Arg Ile Thr Val Leu Leu Thr Ser Phe Leu Met Val Leu Gly Thr
1               5               10              15

Gly Leu Arg Cys Ile Pro Ile Ser Asp Leu Ile Leu Lys Arg Arg Leu
            20              25              30

Ile His Gly Gly Gln Met Leu Asn Gly Leu Ala Gly Pro Thr Val Met
        35              40              45

Asn Ala Ala Pro Phe Leu Ser Thr Thr Trp Phe Ser Ala Asp Glu Arg
    50              55              60

Ala Thr Ala Thr Ala Ile Ala Ser Met Leu Ser Tyr Leu Gly Gly Ala
65              70              75              80

Cys Ala Phe Leu Val Gly Pro Leu Val Val Pro Ala Pro Asn Gly Thr
            85              90              95

Ser Pro Leu Leu Ala Ala Glu Ser Ser Arg Ala His Ile Lys Asp Arg
            100             105             110

Ile Glu Ala Val Leu Tyr Ala Glu Phe Gly Val Val Cys Leu Ile Phe
        115             120             125

Ser Ala Thr Leu Ala Tyr Phe Pro Pro Arg Pro Pro Leu Pro Pro Ser
    130             135             140
```

Val Ala Ala Ala Ser Gln Arg Glu Leu Ser Glu Lys Arg Leu
145   150   155

<210> 1093
<211> 235
<212> PRT
<213> Homo sapiens

<400> 1093
Arg Ala Ala Gln Leu Trp Val Trp Glu Gly Val Val Gln Pro Pro Ala
 1   5   10   15

Ala Trp Gly Gly Pro Trp Ser Ala Ser Arg Cys Gln Gln Gly Lys Gly
            20   25   30

Gly Val Leu Glu Asn Glu Gly Phe Ile Gly Leu Leu Arg Glu Ala Pro
        35   40   45

Gln Pro Gln Thr His His Leu Ala Val Asp Thr Cys Val Ser Met Trp
    50   55   60

Asp Leu Val Leu Ser Ile Ala Leu Ser Val Gly Cys Thr Gly Ala Val
65   70   75   80

Pro Leu Ile Gln Ser Arg Ile Val Gly Gly Trp Glu Cys Glu Lys His
            85   90   95

Ser Gln Pro Trp Gln Val Ala Val Tyr Ser His Gly Trp Ala His Cys
            100   105   110

Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His Cys
        115   120   125

Leu Lys Lys Asn Ser Gln Val Trp Leu Gly Arg His Asn Leu Phe Glu
    130   135   140

Pro Glu Asp Thr Gly Gln Arg Val Pro Val Ser His Ser Phe Pro His
145   150   155   160

Pro Leu Tyr Asn Met Ser Leu Leu Lys His Gln Ser Leu Arg Pro Asp
            165   170   175

Glu Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro Ala
            180   185   190

Lys Ile Thr Asp Val Val Lys Val Leu Gly Leu Pro Pro Arg Ser Gln
        195   200   205

His Trp Gly Pro Pro Ala Thr Pro Gln Ala Gly Ala Ala Ser Asn Gln

```
           210                    215                    220

     Arg Ser Ser Cys Ala Pro Gly Val Phe Ser Val
     225              230              235
```

<210> 1094
<211> 128
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1094

```
     Arg Arg Xaa Xaa Gly Arg Thr Asp Thr Ser Arg Ser Thr Ser Gly Glu
      1               5                   10                  15


     Pro Lys Glu Arg Asp Lys Glu Glu Gly Lys Asp Ser Lys Pro Arg Ser
                      20                  25                  30


     Leu Arg Phe Thr Trp Ser Met Lys Thr Thr Ser Ser Met Asp Pro Asn
                  35                  40                  45


     Asp Met Met Arg Glu Ile Arg Lys Val Leu Asp Ala Asn Asn Cys Asp
              50                  55                  60


     Tyr Glu Gln Lys Glu Arg Phe Leu Leu Phe Cys Val His Gly Asp Ala
     65                  70                  75                  80


     Arg Gln Asp Ser Leu Val Gln Trp Glu Met Glu Val Cys Lys Leu Pro
                      85                  90                  95


     Arg Leu Ser Leu Asn Gly Val Arg Phe Lys Arg Ile Ser Gly Thr Ser
                  100                 105                 110


     Ile Ala Phe Lys Asn Ile Ala Ser Lys Ile Ala Asn Glu Leu Lys Leu
                  115                 120                 125
```

<210> 1095
<211> 214
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (161)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (206)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1095
Ile Leu Phe Ser Ser Leu Leu Thr Cys Asn Phe Cys Leu Pro Ile Pro
 1   5   10   15

Pro Ser Pro Leu Ser Phe Pro Glu Arg His Leu Gly Ser Tyr Leu Leu
                20   25   30

Asp Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr Pro
            35   40   45

Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln Val
        50   55   60

Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala Pro
65   70   75   80

Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln Val
                85   90   95

Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln Leu
                100   105   110

Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala Leu
            115   120   125

Lys Glu Arg Pro Ser Pro Gly Pro Pro Trp Ser Pro Cys Ile Thr Ala
        130   135   140

Ile Leu Thr Thr His Thr Cys Thr Ala Trp Ala Val Glu Pro Ser Phe
145   150   155   160

```
Xaa Val Met Pro Ala Gln Val Thr Thr Ile Met Ile Lys Asn Cys Leu
              165                     170               175

Pro Gln Gly Val Ser Met Lys Ser Thr Arg Gly Gln Gly Gln Gly Ala
              180               185               190

Arg Val Cys Thr Pro Xaa Leu Leu Glu Ile Cys Val Glu Xaa Ser Asp
          195               200               205

Ser Ser Leu Val Arg Gln
    210
```

```
<210> 1096
<211> 62
<212> PRT
<213> Homo sapiens

<400> 1096
Ile Arg His Glu Lys Lys Glu Arg Met Lys Glu Arg Lys Glu Lys Lys
 1               5                    10                   15

Glu Arg Lys Glu Lys Gly Lys Lys Glu Arg Lys Glu Arg Lys Glu Arg
              20                   25                   30

Lys Arg Glu Lys Glu Arg Arg Lys Arg Arg Lys Gly Ile Pro Gly Ile
              35                   40                   45

Tyr His Cys Met Ser Lys Gly Arg Val Val Asp Arg His Ser
    50                   55                   60
```

```
<210> 1097
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1097
Lys Lys His Trp Gly Met Leu Gln Asp Ile Gly Leu Gly Lys Asp Phe
 1   5   10   15

Leu Ser Asn Thr Leu Lys Gly Gln Ala Thr Gln Ala Lys Met Xaa Xaa
            20   25   30

Trp Xaa Xaa Xaa Xaa Leu Lys Asn Phe Tyr Thr Ala Lys Glu Thr Lys
        35   40   45

<210> 1098
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1098
Asn Ile Pro Leu Asp Ser Glu Thr His Asn Tyr Gln Ile Val Asn His
 1   5   10   15

Asp Gln Lys Leu Leu Leu Ile Thr Ser Thr Thr Pro Gln Trp Lys Lys
            20   25   30

```
Asn Arg Val Thr Val Tyr Glu Tyr Asp Thr Arg Glu Asp Gln Trp Ile
        35                  40                  45

Asn Ile Gly Thr Met Leu Gly Leu Leu Gln Phe Asp Ser Gly Phe Ile
        50                  55                  60

Cys Leu Cys Ala Arg Val Tyr Pro Ser Cys Leu Glu Pro Gly Gln Ser
 65                  70                  75                  80

Phe Ile Thr Glu Glu Asp Asp Ala Arg Ser Xaa Ser Ser Thr Glu Trp
                85                  90                  95

Asp Leu Asp Gly Phe Ser Glu Leu Asp Ser Glu Ser Gly Ser Ser Ser
            100                 105                 110

Ser Phe Ser Asp Asp Glu Val Trp Val Gln Val Ala Pro Gln Arg Asn
        115                 120                 125

Ala Gln Asp Gln Gln Gly Ser Leu
    130             135



<210> 1099
<211> 37
<212> PRT
<213> Homo sapiens

<400> 1099
Arg His Glu Arg Lys Val Lys Lys Arg Lys Lys Glu Arg Asn Lys Gln
 1               5                  10                  15

Thr Lys Gln Leu Ala Tyr Ile Tyr Leu Leu Asn Thr Gly Arg Ser Ile
            20                  25                  30

His Asn Leu Thr Leu
        35



<210> 1100
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1100
```

```
Phe Gly Thr Arg Asp Thr Arg Val Lys Glu Arg Gly His Ala Val Ser
 1               5                  10                  15

Glu Lys Leu Leu Leu Gly Trp Lys Gly Gln Leu His Lys Gly Cys Ser
            20                  25                  30

Cys Arg Gly Ser Pro Ala Ala Arg Cys Leu Leu Thr Val Pro Arg Leu
            35                  40                  45

Ser Pro Asp Thr Glu Gly Cys Lys Gly Ser Leu Phe Leu Leu Ser Gly
        50                  55                  60

Ile Gly Lys Leu Tyr His Leu Ser Leu Pro Thr Leu Thr Ser Ala Pro
65                  70                  75                  80

Ala Thr Leu Ser Leu Trp Leu Leu Leu Thr Phe Ser Pro Leu Ile Phe
                85                  90                  95

Ser Pro Asp Gln Val Leu Gly Xaa Ser
                100             105
```

```
<210> 1101
<211> 93
<212> PRT
<213> Homo sapiens

<400> 1101
Ser Gly Arg Thr Leu Val Leu Arg Leu Ala Tyr Val Ser Arg Thr Val
 1               5                  10                  15

Thr Thr Met Ala Pro Glu Val Leu Pro Lys Pro Arg Met Arg Gly Leu
            20                  25                  30

Leu Ala Arg Arg Leu Arg Asn His Met Ala Val Ala Phe Val Leu Ser
            35                  40                  45

Leu Gly Val Ala Ala Leu Tyr Lys Phe Arg Val Ala Asp Gln Arg Lys
        50                  55                  60

Lys Ala Tyr Ala Asp Phe Tyr Arg Asn Tyr Asp Val Met Lys Asp Phe
65                  70                  75                  80

Glu Glu Met Arg Lys Ala Gly Ile Phe Gln Ser Val Lys
                85                  90
```

```
<210> 1102
<211> 26
```

<212> PRT
<213> Homo sapiens

<400> 1102
Phe Gly Thr Ser Ala Pro Pro Arg Pro Ala Asn Phe Cys Ile Phe Gly
 1   5   10   15

Arg Asp Gly Val Ser Ser Arg Trp Leu Gly
            20   25

<210> 1103
<211> 51
<212> PRT
<213> Homo sapiens

<400> 1103
Gly Ser Glu Ser Asn Arg Leu Lys Phe Lys Ser Ser Ser Ala Thr Trp
 1   5   10   15

Leu Met Leu Ser Glu Pro Gln Arg Pro Gln Leu Leu Asn Arg Gly Asn
            20   25   30

His Pro His Leu Ser Ser Phe Gly Arg Lys Leu Asn Glu Ile Tyr Trp
        35   40   45

Gly Ser Arg
    50

<210> 1104
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1104
Lys Arg Tyr Ser Val Leu Ile Leu Cys Lys Lys Xaa Lys Ser Ser Asn
 1               5                  10                  15


Cys Phe Pro Met Xaa Lys Ile Thr Met Ser Cys Ile Met Leu Leu Ser
            20                  25                  30


Phe Tyr Val Asn Ile Ser Tyr Xaa Ser Ser Ile Lys Xaa Ile Tyr
         35                  40                  45




<210> 1105
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1105
Leu Leu Lys Leu Cys Asn Leu Gln Asn Ile Ala Ile Lys Leu His Thr
 1               5                  10                  15


Met Phe Ser Ile Ile Leu Ile Asp Leu Pro Tyr Lys His Leu Asn Lys
            20                  25                  30


Lys Tyr Tyr Leu Met Ile Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
         35                  40                  45


Lys Lys Lys Lys Lys Arg Glu Lys Lys Lys Lys Lys Lys Lys Lys Lys
      50                  55                  60


Xaa Gly Gly Gly Xaa Lys Lys Lys
 65                  70
```

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<210> 1106
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1106
Gly Leu Ser His Ser Asn Ser Ser Tyr Leu Glu Pro Leu Gly Ser Asp
 1               5                  10                  15


Val Asp Arg Ala Asn Val Lys Phe Thr Glu Asn Thr Cys Val Phe Arg
                20                  25                  30


Thr Leu Lys Gly Thr Ile Arg Ala Cys Phe Pro Ser Leu Tyr Met His
            35                  40                  45


Ile Phe Gly Ile Ser Xaa Gly Leu Xaa Asp Val Val Ile Xaa Asn Thr
        50                  55                  60


Ala Arg Met Xaa Ala Val Leu Ile His Xaa Gln Lys Arg Gly Gly
 65                 70                  75



<210> 1107
<211> 91
<212> PRT
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<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1107
Ile Ile Ala Ala Leu Ser Pro Ile Gln Ile Leu Pro Ser Asp Gly Lys
 1               5                  10                  15

Asp Gln Phe Ser Cys Gly Asn Ser Val Ala Asp Gln Ala Phe Leu Asp
                20                  25                  30

Ser Leu Ser Ala Ser Thr Ala Gln Xaa Ser Ser Ser Ala Ala Ser Asn
            35                  40                  45

Asn His Gln Val Arg Leu Thr Ser Ser Phe Trp Met Trp Leu Ala Leu
        50                  55                  60

Arg Lys Thr Glu Arg Ile Cys Xaa Arg Leu Val Met His Tyr Ser Tyr
65                  70                  75                  80

Cys His Ser Pro Lys Ala Lys Thr Lys Ser Leu
                85                  90


<210> 1108
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1108
Glu Val Ile Lys Val Met Asn Thr Cys Gln Cys Ser Gly Phe Thr Pro
 1               5                  10                  15

Val Leu Gln His Phe Gly Glu Ala Lys Ala Gly Arg Ser Phe Glu Pro
             20                  25                  30

Gln Asp Xaa Gly Thr Thr Xaa Gly Asn Ile Val Arg Pro Xaa Val
             35                  40                  45
```

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<210> 1109
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1109
Trp Asn His Leu His Asp Leu Arg Val Ser Arg Asp Leu Leu Ser Arg
 1   5   10   15

Ile Leu Lys Glu His Tyr Lys Phe Arg Glu Lys Ile Asn Ile Leu Ile
             20   25   30

Ile Leu Lys Leu Arg Asn Phe Ser Ser Leu Arg Gly His Lys Val Phe
         35   40   45

Val Val Tyr Thr Ser Asn Lys Ser Ser Ile Phe Xaa Asn Xaa Trp Xaa
     50   55   60

Glu Xaa Xaa Trp Tyr Val Lys Lys Arg Pro Xaa Pro Xaa Gly
 65   70   75

<210> 1110
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1110
Thr Trp Ser Leu His Lys Ile Gln Lys Leu Arg Trp Ala Trp Trp Cys
 1   5   10   15

Val Pro Ile Val Pro Leu Leu Val Gly Leu Arg Gln Glu Xaa His Leu
             20   25   30

Ser Pro Gly Gly Arg Gly Tyr Ser Xaa Pro Arg Val His Tyr Cys Thr
         35   40   45

Pro Ala Arg Ala Arg Glu Arg Asp Pro Val Ser Ile Asn Lys
     50   55   60

```
<210> 1111
<211> 44
<212> PRT
<213> Homo sapiens

<400> 1111
Phe Met Asn Leu Phe Pro Gly Lys Pro Tyr Asp Ser Thr Val Lys Gly
 1               5                  10                  15

Val Arg Ile Val Lys Met Val Phe Ser Asp Gln Val Cys Ala His Ala
            20                  25                  30

Trp Pro Trp Ile Asp Ser Glu Met Arg Phe Phe Val
            35                  40
```

```
<210> 1112
<211> 263
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1112
Gly Arg Ala Ile Met Ala Ala Ser Arg Leu Glu Leu Asn Leu Val Arg
 1               5                  10                  15

Leu Leu Xaa Arg Cys Glu Ala Met Ala Ala Glu Lys Arg Asp Pro Asp
            20                  25                  30

Glu Trp Arg Leu Glu Lys Tyr Val Gly Ala Leu Glu Asp Met Leu Gln
            35                  40                  45

Ala Leu Lys Val His Ala Ser Lys Pro Ala Ser Glu Val Ile Asn Glu
        50                  55                  60

Tyr Ser Trp Lys Val Asp Phe Leu Lys Gly Met Leu Gln Ala Glu Lys
65                  70                  75                  80

Leu Thr Ser Ser Ser Glu Lys Ala Leu Ala Asn Gln Phe Leu Ala Pro
                85                  90                  95

Gly Arg Val Pro Thr Thr Ala Arg Glu Arg Val Pro Ala Thr Lys Thr
                100                 105                 110

Val His Leu Gln Ser Arg Ala Arg Tyr Thr Ser Glu Met Arg Ser Glu
            115                 120                 125
```

```
Leu Leu Gly Thr Asp Ser Ala Glu Pro Glu Met Asp Val Arg Lys Arg
    130             135         140

Thr Gly Val Ala Gly Ser Gln Pro Val Ser Glu Lys Gln Ser Ala Ala
145             150             155             160

Glu Leu Asp Leu Val Leu Gln Arg His Gln Asn Leu Gln Glu Lys Leu
            165             170             175

Ala Glu Glu Met Leu Gly Leu Ala Arg Ser Leu Lys Thr Asn Thr Leu
            180             185             190

Ala Ala Gln Ser Val Ile Lys Lys Asp Asn Gln Thr Leu Ser His Ser
        195             200             205

Leu Lys Met Ala Asp Gln Asn Leu Glu Lys Leu Lys Thr Glu Ser Glu
    210             215             220

Arg Leu Glu Gln His Thr Gln Lys Ser Val Asn Trp Leu Leu Trp Ala
225             230             235             240

Met Leu Ile Ile Val Cys Phe Ile Phe Ile Ser Met Ile Leu Phe Ile
            245             250             255

Arg Ile Met Pro Lys Leu Lys
            260
```

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<210> 1113
<211> 40
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1113
Xaa Ala Xaa Xaa Xaa Trp Pro Pro Pro Lys Gly Asn Lys Ser Trp Ser
 1               5                  10                  15


Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys
            20                  25                  30


Arg Gln Lys Gly Xaa Phe Lys Ile
            35                  40




<210> 1114
<211> 125
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1114
Arg Lys Arg Leu Ala Phe Trp Thr Thr Gly Ile Arg Asp Trp Leu Thr
 1               5                  10                  15


Trp Arg Thr His Ser Val Cys Ala Glu Xaa Arg Ala Leu Thr Ser Ala
            20                  25                  30


Glu Ala Glu Val Gly Ala Cys Pro Arg Gly Leu Thr Arg Phe Ala Ser
            35                  40                  45


Arg Pro Gln Pro Leu His Leu Leu Lys Ala Gln Glu Met Ile Arg Leu
        50                  55                  60


Lys His Pro Pro Ile Leu Leu Phe Cys Leu Gly Trp Lys Thr Trp Pro
65                  70                  75                  80


Arg Ser Trp Arg Pro Leu Leu His Leu Pro Asp Ser Gln Glu Ser Ser
                85                  90                  95


Asp Gln Ser Cys Arg Thr Leu Leu Leu Pro Leu Ala Leu Leu Pro Phe
```

```
                    100              105              110

    Ser Ser Ser Trp Gly Pro Ser Leu Val Pro His Ser Leu
            115              120              125
```

```
<210> 1115
<211> 109
<212> PRT
<213> Homo sapiens

<400> 1115
    Ile Asp Lys Arg Val Pro Cys Asn Gln Leu Lys Ser Val Leu Cys Val
     1               5                   10                  15

    Cys Phe Val Ser Gly Ala Glu Tyr Asp Asn Leu Pro Thr Val Pro Leu
                20                  25                  30

    Phe Glu Val Gly Leu Ala Leu Glu Ser Tyr Cys Lys Cys Leu Ala Cys
                35                  40                  45

    Met Ile Val Pro Gly His Pro Thr Leu Glu Phe Ala Pro Ser Cys Phe
        50                  55                  60

    Ser Glu Asp Ala Val Asn Arg Phe Arg Phe Tyr Cys Leu Trp Ile Trp
    65                  70                  75                  80

    Gly Val Thr Val Ala Leu Phe Thr Phe Leu Ile Lys Ile His Met Lys
                    85                  90                  95

    Thr Arg Lys Lys Trp Leu Phe Leu Pro Arg Leu Cys Thr
                100              105
```

```
<210> 1116
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 1116
Gln Xaa Glu Leu Xaa Leu Lys Lys Lys Lys Lys Ile Ile Cys Lys Ile
 1           5               10              15

Asn Ser Gly Ile Val Val Leu Phe Lys Glu Met Phe Cys Lys Leu Ser
             20              25              30

Ser His Tyr Ile Ile Phe Ile Val Leu Ser
             35              40
```

```
<210> 1117
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1117
Lys Xaa Ala Thr Pro Arg Pro Pro Gly Glu Thr Arg Pro Arg Met Pro
 1           5               10              15

Arg Leu Phe Leu Phe His Leu Leu Glu Phe Cys Leu Leu Leu Asn Gln
             20              25              30

Phe Ser Arg Ala Val Ala Ala Lys Trp Lys Asp Asp Val Ile Lys Leu
             35              40              45

Cys Gly Arg Glu Leu Val Arg Ala Gln Ile Ala Ile Leu Gly
     50              55              60
```

```
<210> 1118
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1118
Pro Ser Val Glu Trp Glu Gln Gly His Ser Glu Arg Ala Glu Ser Pro
1   5   10   15

His Pro Pro Thr Leu Gln Gln Ala Ala Ala Gly Arg Leu Val Asn Cys
            20   25   30

Arg Ala Gly Thr Gln Gln Gln Ala Ala Gly Thr Pro Xaa Leu Leu Gln
        35   40   45

Leu Met Ala Val Cys Leu Ser Gln Asp Leu Glu Lys Thr Arg Leu Val
    50   55   60

Tyr Glu Arg Ile Thr Ile Gly Thr Leu Phe Met Ser Phe Met Asn Xaa
65   70   75   80

<210> 1119
<211> 73
<212> PRT
<213> Homo sapiens

<400> 1119
Thr Gln Gln Ser Val Pro Val Ile Val His Pro Gly Val Ala Leu Leu
1   5   10   15

Ile Pro Ser Gly Met Tyr Leu Pro Ser Glu Leu His Phe Phe Lys Met
            20   25   30

Leu Trp Val Val Gly Trp Glu Thr Ile Leu Gln Pro Ser Ser Asp Leu
        35   40   45

Ile Asn Ser Leu Arg Asp Cys Lys Ala Glu Ser Thr Ser Gly His Ser
    50   55   60

Trp Glu Thr Asp Pro Leu Val Met Lys
65   70

<210> 1120
<211> 77
<212> PRT
<213> Homo sapiens

<220>

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<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1120
Thr Ser Ser Ser Tyr Ser Asp Lys Gln Asp Thr Pro Pro His Pro Thr
 1               5                   10                  15

Cys Ser Ile Ser Leu Ser Pro Leu Pro Gln Thr His Leu His Cys Ser
            20                   25                  30

Ser Cys Arg Gly Ser Arg Lys Xaa Ile Leu Lys Ile Thr Arg Val Gly
        35                  40                  45

Xaa Gly Ala Val Xaa Ser Gly Cys Xaa Xaa Gln His Phe Gly Xaa Gly
        50                  55                  60

Pro Gly Lys Ala Val His Phe Gly Val Lys Gly Phe Leu
 65                 70                  75


<210> 1121
<211> 66
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1121
Pro Xaa Leu Tyr Tyr Val Lys Leu Pro Ile Lys Tyr Phe Tyr Asp Tyr
 1           5               10               15

Arg Phe Cys Ile Phe Val Tyr Asn Tyr Leu Lys Ser Phe Met Leu Tyr
             20               25               30

Leu Glu Phe Gln Pro Arg Asn His Thr Val Leu Lys Phe Ser Trp Gly
             35               40               45

Leu Leu Leu Ser Leu Asn His Leu Leu Asn Ile Tyr Leu Pro Lys Gly
         50               55               60

Asp Phe
 65




<210> 1122
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1122
Ser Gln His Phe Gly Asn Ala Glu Val Ser Gly Ser Pro Glu Val Arg
 1           5               10               15

Ser Ser Arg Pro Ala Trp Ala Asn Met Val Lys Pro His Phe Leu Leu
             20               25               30

Lys Lys Lys Lys Leu Gly Gly Gly Xaa
         35               40




<210> 1123
<211> 45
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1123
Lys Lys Lys Lys Gly Cys Thr Lys Ile Ser Phe Xaa Gln Arg Leu Xaa
 1               5                  10                  15


Lys Arg Lys Lys Lys Arg Asn Thr Cys Val Leu Lys Thr Ile Cys Ile
                20                  25                  30


Phe Ser Phe Leu Asp His Thr Val Ala Asn Tyr Cys Tyr
            35                  40                  45



<210> 1124
<211> 227
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1124
Arg Leu Pro Arg Asn Ile Thr Pro Glu Trp Leu Gln Pro Arg Arg Pro
 1               5                  10                  15


Gly Val Pro Cys Phe Trp Ile Gln Phe Ser Xaa Val His Gly Phe Pro
                20                  25                  30


Lys Glu Trp Ser Cys Xaa Phe Phe Gly Ile Val Asn Ile Leu Leu Lys
            35                  40                  45


Tyr Gly Ala Gln Ile Asn Glu Leu His Leu Ala Tyr Cys Leu Lys Tyr
    50                  55                  60


Glu Lys Phe Ser Ile Phe Arg Tyr Phe Leu Arg Lys Gly Cys Ser Leu
```

```
       65                      70                      75                      80

     Gly Pro Trp Asn His Ile Tyr Glu Phe Val Asn His Ala Ile Lys Ala
                     85                      90                      95

     Gln Ala Lys Tyr Lys Glu Trp Leu Pro His Leu Leu Val Ala Gly Phe
                    100                     105                     110

     Asp Pro Leu Ile Leu Leu Cys Asn Ser Trp Ile Asp Ser Val Ser Ile
                    115                     120                     125

     Asp Thr Leu Ile Phe Thr Leu Glu Phe Thr Asn Trp Lys Thr Leu Ala
                130                     135                     140

     Pro Ala Val Glu Arg Met Leu Ser Ala Arg Ala Ser Asn Ala Trp Ile
     145                     150                     155                     160

     Leu Gln Gln His Ile Ala Thr Val Pro Ser Leu Thr His Leu Cys Arg
                         165                     170                     175

     Leu Glu Ile Arg Ser Ser Leu Lys Ser Glu Arg Leu Arg Ser Asp Ser
                    180                     185                     190

     Tyr Ile Ser Gln Leu Pro Leu Pro Arg Ser Leu His Asn Tyr Leu Leu
                    195                     200                     205

     Tyr Glu Asp Val Leu Arg Met Tyr Glu Val Pro Glu Leu Ala Ala Ile
                210                     215                     220

     Gln Asp Gly
     225



     <210> 1125
     <211> 74
     <212> PRT
     <213> Homo sapiens

     <400> 1125
     Asn Val Ala Cys Asn Thr Val Leu Pro Ala Lys Phe Ser Thr Phe Cys
      1               5                      10                      15

     Asn Leu Phe Tyr Phe Phe Gly Cys Lys Ala Phe Leu Leu Ser Ile Val
                     20                      25                      30

     Ile Leu Tyr Met Phe Cys Pro Ser Cys Ile Val Met Phe Gln Ser Ile
                 35                      40                      45

     Ile Gln Leu Trp Leu Leu Lys Ser Tyr Ser Cys Glu Asp Leu Pro Leu
                 50                      55                      60
```

```
Phe Leu Leu Asp Cys Phe Ser Val Leu Tyr
 65                  70
```

```
<210> 1126
<211> 44
<212> PRT
<213> Homo sapiens

<400> 1126
Ile Ser Ser Thr Pro Ser Leu Thr Gln Ile Leu Val Phe Ile Met Asp
 1               5                  10                  15

Phe Phe Phe Lys Leu Val Tyr Leu Ile Leu Ser Phe His Phe Trp Gln
            20                  25                  30

His Met Asp Asp Phe Ile Phe Asn Asn His Ile Ser
            35                  40
```

```
<210> 1127
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1127
Leu Ser Pro Phe Glu Ala Ser Thr Asp Trp Xaa Lys Gln Ile Xaa Lys
 1               5                  10                  15

Trp Asp Val Thr Gly Leu Ile Ser Thr Asn Arg Leu Phe Thr Thr Pro
            20                  25                  30

Ser Trp Xaa Pro Val Ser
```

35

```
<210> 1128
<211> 70
<212> PRT
<213> Homo sapiens

<400> 1128
Gly Thr Glu Cys Thr His Gly Lys Lys Pro Cys Phe Val Phe Cys Ser
 1               5                  10                  15

Leu Phe Phe Leu Ser Pro Phe Leu Ser Phe Met Ala Gly Asp Met Ile
                20                  25                  30

Tyr Cys Ser His Pro Ser Trp Gly Leu Ile His His Thr Arg Val Ala
         35                  40                  45

Arg Arg Leu Trp Gln Gln Leu Phe Ala Leu Asn Gln Thr Glu Lys Leu
     50                  55                  60

Ser Ile Ile Lys Gly Arg
65                  70



<210> 1129
<211> 50
<212> PRT
<213> Homo sapiens

<400> 1129
His Leu Pro Leu Ser Glu Thr His Ser Pro Ile Leu Asn Ala Tyr Ala
 1               5                  10                  15

Val Gly Tyr His Leu Pro Leu Glu Val Leu Glu Ala Ile Ser Cys Arg
                20                  25                  30

Ser Arg Val Ala Met Gly Leu Asn Tyr Tyr Tyr Pro Pro Lys Met Leu
         35                  40                  45

Cys Leu
     50



<210> 1130
<211> 76
<212> PRT
<213> Homo sapiens
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```
<400> 1130
Phe Val Lys Gly Val Asn Cys Leu Ile Tyr Leu Thr Arg Phe Phe Lys
 1               5                  10                  15

Gln Ile Leu Ile Gly His Ala Leu His Ala Arg Leu Trp Ala Trp Tyr
            20              25              30

Leu Arg Val Leu Thr Gly Glu Ala Gly Ser Gly Asn Lys His Met Cys
        35              40              45

Asn Cys Cys Val Asp Ser Leu Ile Gly Arg Lys Ser Ala Asn Lys Glu
    50              55              60

Ala Asp Lys Leu Glu Asn Glu Arg Lys Val Met Cys
65              70              75
```

```
<210> 1131
<211> 121
<212> PRT
<213> Homo sapiens
```

```
<400> 1131
Thr Pro Tyr Tyr Leu Arg Val Arg Arg Lys Asn Pro Val Thr Ser Thr
 1               5                  10                  15

Tyr Ser Lys Met Ser Leu Gln Leu Tyr Gln Val Asp Ser Arg Thr Tyr
            20              25              30

Leu Leu Asp Phe Arg Ser Ile Asp Asp Glu Ile Thr Glu Ala Lys Ser
        35              40              45

Gly Thr Ala Thr Pro Gln Arg Ser Gly Ser Val Ser Asn Tyr Arg Ser
    50              55              60

Cys Gln Arg Ser Asp Ser Asp Ala Glu Ala Gln Gly Lys Ser Ser Glu
65              70              75              80

Val Ser Leu Thr Ser Ser Val Thr Ser Leu Asp Ser Ser Pro Val Asp
            85              90              95

Leu Thr Pro Arg Pro Gly Ser His Thr Ile Glu Phe Phe Glu Met Cys
        100             105             110

Ala Asn Leu Ile Lys Ile Leu Ala Gln
    115             120
```

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<210> 1132
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1132
Lys Thr Arg Gly Lys Leu Asp Lys Glu Pro Arg Pro Thr Gly Val Cys
 1               5                  10                  15

Cys Leu Gln Glu Thr His Leu Thr Cys Gly Gly Ile His Arg Leu Lys
                20                  25                  30

Ile Lys Glu Trp Arg Lys Ile Phe Gln Ala Asn Gly Lys Gln Lys Lys
                35                  40                  45

Ala Gly Val Ala Leu Leu Leu Ser Asp Lys Thr Xaa Xaa Ala Xaa
    50                  55                  60


<210> 1133
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1133
Pro Ser Gln Val Ser Leu Asn His Pro Asp Asp Leu Pro Val Glu Arg
 1               5                  10                  15

Ser Tyr Pro Ser Gln Val Tyr Phe Leu Met Arg Thr Gly His Ser Trp
                20                  25                  30
```

```
Asp Asp Leu Pro Ala Glu Arg Ser Asp Ile Phe Trp Val Xaa
         35                  40                  45
```

```
<210> 1134
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1134
Asn Ser Ala Arg Glu Val Ile Tyr Met Ile His Ser Gln Glu Leu Leu
 1               5                  10                  15

Asp Arg Lys Xaa Gln Gly Pro Gln Pro Leu Cys Pro Leu Tyr Pro Gln
             20                  25                  30

Met Ala Leu Gly Ile Asn Ser Ser Gly Ile Ala Leu Lys Asn Ser Ala
         35                  40                  45

Ser Cys Phe Ala Glu Cys His Gly His Val Ile Leu Arg Ser His Asn
     50                  55                  60

Thr
 65
```

```
<210> 1135
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1135
Ser Cys Val Arg Gly Asn Leu Glu Pro Tyr Ile Asn Thr Tyr Ile Ile
 1               5                  10                  15

Lys Gly Lys Ile Leu Lys Val Asn Gly Xaa Lys Ala Ser Ile
             20                  25                  30
```

```
<210> 1136
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1136
Pro Glu Ser Arg His Ile Leu Val Cys Thr Gln Leu Trp Ala Lys Xaa
 1               5                  10                  15


Arg Trp Arg His Leu Ser Ser His Ala Glu Leu His Ser Arg Leu Arg
             20                  25                  30


Thr Trp Val Gly Ser Ser Lys Val Ile Ala Lys Ala Pro Leu Ser Gly
         35                  40                  45


Gly Tyr Thr
     50




<210> 1137
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1137
Ser Arg Leu Ser Phe Gln Asp Leu Ala Pro Ala Leu Gly Met Val Gly
 1               5                  10                  15
```

```
Gly Lys Ala Lys Asn Leu Gly Ser Xaa Xaa Pro Trp Ala Leu Lys Asn
            20                  25                  30

Val Val Leu Phe Lys Glu Gln Gly Ser Xaa Gln Gly Cys Phe Trp Gly
            35                  40                  45
```

```
<210> 1138
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1138
```

```
Lys Met Cys Leu Phe Gln Leu Ser Gln Xaa Gly Asn Val Thr Gly Ile
  1             5                  10                  15

Arg Trp Val Lys Ala Arg Asp Ala Ala Arg His Ser Thr Val His Arg
            20                  25                  30

Thr Thr Pro Thr Thr Lys Asn Tyr Leu Ala Gln Asn Val Asn Asn Ala
            35                  40                  45

Glu Val Glu Lys Xaa
        50
```

```
<210> 1139
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1139
Ile Gly Phe Gly His Asp Thr Asp Phe Leu Glu Ala Arg Cys Cys Phe
 1               5                   10                  15

Xaa Ser Gly Met Gly Val His Asp Cys Pro Glu Gln Pro Arg Ser Gln
                20                  25                  30

Phe Phe Arg Arg Leu Ser Ala Ile Ser Ala Gln Ala Phe Thr Gly Gln
            35                  40                  45

Gly Gln Lys Gln Leu Xaa Gly Val Gly Gly Ala Ser Ser Thr Ala Ala
        50                  55                  60

Trp Pro Gln Glu Ile Gly Cys Ser Ser Ser Ser Ala Cys Gly Met Val
65                  70                  75                  80

Arg Asn Asn Leu Gly Gly
                85


<210> 1140
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1140
Ile Lys Lys Tyr Ile Phe His Phe Tyr Phe Ile Xaa Asn His Asn Tyr
 1               5                   10                  15

Leu Leu Arg Arg Cys Met His Leu Leu Asp Thr Val Gln Leu Leu Thr
                20                  25                  30

Trp Asn Glu Ile Gly His Cys Cys Pro His Phe Leu Leu His Val Gly
            35                  40                  45

Val His Ile Val Leu Asp Phe Leu Ser Asp Gly Leu Glu Asn Pro Val
        50                  55                  60

Ser Gln Lys Tyr Glu Ile Ile Arg Arg Ile Ile Val Gln Ser Tyr Val
65                  70                  75                  80
```

```
Glu Arg Met Asn Tyr Leu Thr Ser Ser Ser Arg Asp Val
                    85                  90
```

```
<210> 1141
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1141
Lys Ile Ile Ile Phe Ser Val Val His Asn Asn Val Leu Asn Ile Leu
  1               5               10                  15

Leu Ile Lys Gly Ala Met Ser Leu Cys Met Val Leu Asn Val Ser Cys
             20              25                  30

Val Pro Phe Ala Gln Leu Arg Ile Leu Gln Leu Gly Phe Asn Glu Trp
         35              40                  45

Gly His Gly Ile Ile Met Gly Xaa Cys Lys Lys Xaa Lys Arg Gly
     50              55                  60
```

```
<210> 1142
<211> 57
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 1142
Phe Cys Val Glu Leu Ile Ser Gln Cys Arg Gly Lys Asn Ser Leu Gly
 1               5                  10                  15

Ser Ser Leu Asp Ile Thr Val His Arg Ala Ser His Gln Asp Asp Pro
             20                  25                  30

Thr Phe Tyr Gly Gly Pro Gly Ile Gly Ser Pro Glu Pro Ile Thr Gln
         35                  40                  45

Xaa Pro Ser Asp Gly Trp Gly Xaa Trp
     50                  55



<210> 1143
<211> 203
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (174)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
```

```
<221> SITE
<222> (184)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1143
Ala Leu Ala Leu Cys Gln Cys Gly Val Pro Ala Cys Ser His Val Pro
 1               5                  10                  15

Met Trp Ser Ala Arg Leu Leu Met Cys Pro Cys Gly Val Pro Ala Cys
            20                  25                  30

Ser His Met Xaa Met Arg Ser Ala Xaa Leu Leu Thr His Ala His Val
        35                  40                  45

Glu Cys Pro Pro Ala His Thr Cys Pro Cys Gly Val Pro Ala Cys Ser
    50                  55                  60

His Thr Cys Pro Cys Gly Val Pro Thr Cys Ser Cys Ala His Val Glu
65                  70                  75                  80

Cys Pro Pro Ala His Met Cys Arg Cys Gly Val Pro Pro Ala His Thr
            85                  90                  95

Arg Ala His Val Glu Cys Pro Pro Ala His Xaa Cys Arg Cys Gly Val
            100                 105                 110

Pro Ala Cys Ser His Val Pro Met Arg Ser Ala Arg Leu Leu Thr Arg
        115                 120                 125

Ala Asp Ala Glu Cys Pro Pro Ala His Thr Cys Pro Cys Gly Val Pro
    130                 135                 140

Ala Cys Ser His Val Pro Thr Arg Ser Ala Arg Leu Leu Thr Arg Ala
145                 150                 155                 160

Asp Ala Glu Cys Pro Pro Ala His Thr Cys Xaa Arg Gly Xaa Pro Ala
            165                 170                 175

Cys Ser His Xaa Pro Thr Arg Xaa Ala Arg Leu Leu Thr Xaa Ala His
            180                 185                 190

Val Glu Cys Arg Leu Leu Thr Leu Pro Met Trp
            195                 200
```

```
<210> 1144
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1144
Lys Val Leu Leu Pro Tyr Leu Cys Ser Ser Phe Pro Met Ala Glu Phe
 1               5                  10                  15

Cys Asn Tyr Ile Gln Asn Ile Val Tyr Ile Leu Phe Leu Lys Leu Tyr
            20                  25                  30

Tyr Ile Gly Trp Ile Leu Leu Xaa Trp Gly Thr Gly Ala Tyr Ile Gln
            35                  40                  45

Gly Ser Phe Leu Ser Thr Cys Leu Ser Thr Ile Cys Cys Val
            50                  55                  60


<210> 1145
<211> 105
<212> PRT
<213> Homo sapiens

<400> 1145
Asn Glu Ser Leu Thr Gln Phe His Ala Thr Phe Cys Leu Phe Ser Lys
 1               5                  10                  15

Glu Arg Leu Leu Gly Leu Ser Val Thr Arg His Val Trp Ile Ala Ser
            20                  25                  30

His Ile His Ile Met Pro Gly Ser Pro Gln Pro Thr His Val Leu Glu
            35                  40                  45

Val Ala Thr Cys Gln Val Ser Val Phe Ser Leu Asn Ser Lys Trp Val
            50                  55                  60

Asn His Met Asn Ser Thr Gly Pro Cys Glu Asn Gly Val Lys Ala Ser
65                  70                  75                  80

Phe Val Pro Phe Ser Ile Ser Leu Thr His Met Cys Ser Leu Ser Thr
                85                  90                  95

Ala Glu Asp Arg Phe Val Cys Ala Leu
                100                 105
```

```
<210> 1146
<211> 243
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (240)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1146
Lys Glu Thr Leu Glu Thr Ile Ser Asn Glu Glu Gln Thr Pro Leu Leu
 1               5                  10                  15


Lys Lys Ile Asn Pro Thr Glu Ser Thr Ser Lys Ala Glu Glu Asn Glu
             20                  25                  30


Lys Val Asp Ser Lys Val Lys Ala Phe Lys Lys Pro Leu Ser Val Phe
         35                  40                  45


Lys Gly Pro Leu Leu His Ile Ser Pro Ala Glu Glu Leu Tyr Phe Gly
     50                  55                  60


Ser Thr Glu Ser Gly Glu Lys Lys Thr Leu Ile Val Leu Thr Asn Val
 65                  70                  75                  80


Thr Lys Asn Ile Val Ala Phe Lys Val Arg Thr Thr Ala Pro Glu Lys
                 85                  90                  95


Tyr Arg Val Lys Pro Ser Asn Ser Ser Cys Asp Pro Gly Ala Ser Val
             100                 105                 110


Asp Ile Val Val Ser Pro His Gly Gly Leu Thr Val Ser Ala Gln Asp
         115                 120                 125


Arg Phe Leu Ile Met Ala Ala Glu Met Glu Gln Ser Ser Gly Thr Gly
     130                 135                 140


Pro Ala Glu Leu Thr Gln Phe Trp Lys Glu Val Pro Arg Asn Lys Val
145                 150                 155                 160


Met Glu His Arg Leu Arg Cys His Thr Val Glu Ser Ser Lys Pro Asn
                 165                 170                 175


Thr Leu Thr Leu Lys Asp Asn Ala Phe Asn Met Ser Asp Lys Thr Ser
                 180                 185                 190


Glu Asp Ile Cys Leu Gln Leu Ser Arg Leu Leu Glu Ser Asn Arg Lys
```

```
            195                   200                   205

Leu Glu Asp Gln Val Gln Arg Cys Ile Trp Phe Gln Gln Leu Leu Leu
      210               215               220

Ser Leu Thr Met Leu Leu Leu Ala Phe Val Thr Ser Phe Phe Tyr Xaa
225               230               235               240

Leu Tyr Ser
```

<210> 1147
<211> 58
<212> PRT
<213> Homo sapiens

<400> 1147
```
Ser Val Lys Met Met Tyr Cys Ile Leu Lys Tyr Ser Asn Cys Ala Phe
  1               5               10               15

Leu Tyr His Leu Gln Tyr Glu Lys Cys Gln Tyr Leu Val Pro Phe Ser
              20               25               30

Gly Thr Ile Arg Phe Leu Leu Thr Leu Phe Ser Pro Leu Thr His Val
              35               40               45

Ile Ser His Ser Asn Gln Glu Ser Arg Glu
      50               55
```

<210> 1148
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1148
```
Xaa Xaa Asn Gly Leu Gly Ser Val Lys Asp Gly Glu Pro His Phe Val
  1               5               10               15
```

```
Val Val His Cys Thr Gly Tyr Ile Lys Ala Trp Pro Gln Gln Val Phe
            20                  25                  30

Pro Ser Gln Met Met Thr Gln Pro Glu Val Phe Gln Glu Met Leu Ser
            35                  40                  45

Met Leu Gly Asp Gln Ser Asn Ser Tyr Asn Asn Glu Glu Phe Pro Asp
            50                  55                  60

Leu Thr Met Phe Pro Pro Phe Ser Glu
  65                  70
```

```
<210> 1149
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1149
Val Lys Trp Val Val Ser Phe Asn Ile Gln Asn Asn His Met Xaa Tyr
  1               5                  10                  15

Xaa Leu Pro Leu Ser Phe Pro Phe Val Gln Met Arg Lys Val Arg Leu
            20                  25                  30

Thr Glu Val Asn Trp Pro Arg Val Pro Gln Leu Val Ser Ala Glu Val
            35                  40                  45

Gly Xaa His Asn Gln Ile Cys Ser Ala Xaa Asn Leu Cys Gln Ile Ser
```

```
         50                    55                    60

  Ser Lys Val Leu Gln Arg Ala Arg His Val Tyr Phe Ile Pro Ile
   65                    70                    75



<210> 1150
<211> 138
<212> PRT
<213> Homo sapiens

<400> 1150
  His Ser Glu Ile Gln Ser Val Cys Leu Thr Arg Leu Phe Asp Phe Lys
    1               5                  10                  15

  Ile Phe Cys Arg Lys Cys Phe Glu Asn Phe Glu Tyr Leu Lys Met Ala
                  20                  25                  30

  Gly Val Val Leu His Phe Ala Ser Cys Ser Asp Thr Leu Phe Tyr Leu
              35                  40                  45

  Tyr Arg Tyr Ser Glu Phe Leu Phe Phe Ser Thr Cys Cys Thr Leu Ser
          50                  55                  60

  Lys Ala Lys Arg Lys Leu Ile Leu Gly Ser Arg Lys Ala Glu Ala Phe
   65                  70                  75                  80

  Gly Glu Met Glu Thr Arg Met Cys Lys Asn Glu Thr Thr Thr Ser Arg
                  85                  90                  95

  Ile Lys Lys Lys Lys Cys Gln Ser Ser Arg Val Leu Ser Asp Val Gln
                  100                 105                 110

  Glu Gly Gly Gly Ile Ile Phe Met Glu His Ile Leu Trp Asn Thr Ala
              115                 120                 125

  Ile Arg Met Ser Glu Lys Leu Ile Cys Ser
              130                 135



<210> 1151
<211> 489
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1151

```
Arg Pro Arg Thr Arg Ala Pro Arg Gly Ala Arg Ser Ala Cys Thr Arg
  1               5               10              15

Gly Xaa Arg Arg Arg Pro Val Pro Ser Leu Lys Val Leu Ser Pro Phe
             20              25              30

Ala Val Val Gln Met Arg Lys Lys Trp Lys Met Gly Gly Met Lys Tyr
         35              40              45

Ile Phe Ser Leu Leu Phe Phe Leu Leu Leu Glu Gly Gly Lys Thr Glu
     50              55              60

Gln Val Lys His Ser Glu Thr Tyr Cys Met Phe Gln Asp Lys Lys Tyr
 65              70              75              80

Arg Val Gly Glu Arg Trp His Pro Tyr Leu Glu Pro Tyr Gly Leu Val
             85              90              95

Tyr Cys Val Asn Cys Ile Cys Ser Glu Asn Gly Asn Val Leu Cys Ser
             100             105             110

Arg Val Arg Cys Pro Asn Val His Cys Leu Ser Pro Val His Ile Pro
         115             120             125

His Leu Cys Cys Pro Arg Cys Pro Glu Asp Ser Leu Pro Pro Val Asn
     130             135             140

Asn Lys Val Thr Ser Lys Ser Cys Glu Tyr Asn Gly Thr Thr Tyr Gln
145             150             155             160

His Gly Glu Leu Phe Val Ala Glu Gly Leu Phe Gln Asn Arg Gln Pro
             165             170             175

Asn Gln Cys Thr Gln Cys Ser Cys Ser Glu Gly Asn Val Tyr Cys Gly
         180             185             190

Leu Lys Thr Cys Pro Lys Leu Thr Cys Ala Phe Pro Val Ser Val Pro
     195             200             205

Asp Ser Cys Cys Arg Val Cys Arg Gly Asp Gly Glu Leu Ser Trp Glu
     210             215             220

His Ser Asp Gly Asp Ile Phe Arg Gln Pro Ala Asn Arg Glu Ala Arg
225             230             235             240

His Ser Tyr His Arg Ser His Tyr Asp Pro Pro Ser Arg Gln Ala
             245             250             255

Gly Gly Leu Ser Arg Phe Pro Gly Ala Arg Ser His Arg Gly Ala Leu
```

```
                    260                  265                  270

    Met Asp Ser Gln Gln Ala Ser Gly Thr Ile Val Gln Ile Val Ile Asn
            275                  280                  285

    Asn Lys His Lys His Gly Gln Val Cys Val Ser Asn Gly Lys Thr Tyr
            290                  295                  300

    Ser His Gly Glu Ser Trp His Pro Asn Leu Arg Ala Phe Gly Ile Val
    305                  310                  315                  320

    Glu Cys Val Leu Cys Thr Cys Asn Val Thr Lys Gln Glu Cys Lys Lys
                    325                  330                  335

    Ile His Cys Pro Asn Arg Tyr Pro Cys Lys Tyr Pro Gln Lys Ile Asp
                    340                  345                  350

    Gly Lys Cys Cys Lys Val Cys Pro Glu Glu Leu Pro Gly Gln Ser Phe
                    355                  360                  365

    Asp Asn Lys Gly Tyr Phe Cys Gly Glu Glu Thr Met Pro Val Tyr Glu
            370                  375                  380

    Ser Val Phe Met Glu Asp Gly Glu Thr Thr Arg Lys Ile Ala Leu Glu
    385                  390                  395                  400

    Thr Glu Arg Pro Pro Gln Val Glu Val His Val Trp Thr Ile Arg Lys
                    405                  410                  415

    Gly Ile Leu Gln His Phe His Ile Glu Lys Ile Ser Lys Arg Met Phe
                    420                  425                  430

    Glu Glu Leu Pro His Phe Lys Leu Val Thr Arg Thr Thr Leu Ser Gln
            435                  440                  445

    Trp Lys Ile Phe Thr Glu Gly Glu Ala Gln Ile Ser Gln Met Cys Ser
            450                  455                  460

    Ser Arg Val Cys Arg Thr Glu Leu Glu Asp Leu Val Lys Val Leu Tyr
    465                  470                  475                  480

    Leu Glu Arg Ser Glu Lys Gly His Cys
                    485
```

<210> 1152
<211> 48
<212> PRT
<213> Homo sapiens

```
<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1152
Ile Asn Phe Leu Thr Ile Gly Phe Tyr Gly Val Gly His Asn Phe Trp
 1               5                  10                  15


Leu Tyr Phe Lys Asn Phe Phe Leu Gly Gly Gly Val Leu Gly Ser Gly
                 20                  25                  30


His Gln Gly Arg Gly Val Ala Trp Gly Xaa Asp Pro Gly Ala Ser Pro
                 35                  40                  45
```

```
<210> 1153
<211> 48
<212> PRT
<213> Homo sapiens

<400> 1153
Thr Ile Val Arg Asp Gly Ser Asn Asp Val Ile Cys Glu Asn Ser His
 1               5                  10                  15


His Leu Pro Val Arg Gln Asn Leu Leu Lys Pro Pro Glu Ser Asn Leu
                 20                  25                  30


Asp Tyr Ile Arg Pro Phe Phe Thr His Lys Lys Ile Leu Tyr Gly Ile
                 35                  40                  45
```

```
<210> 1154
<211> 344
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
```

```
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (314)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1154
Ser Lys Lys Leu Thr Arg Pro Leu Val Met Lys Thr Gly Arg Pro Ala
 1               5                   10                  15

Gly Lys Gly Ser Ile Thr Ile Ser Ala Glu Glu Ile Lys Asp Asn Arg
             20                  25                  30

Val Val Leu Phe Glu Met Glu Ala Arg Lys Leu Asp Asn Lys Asp Leu
             35                  40                  45

Phe Gly Lys Ser Asp Pro Tyr Leu Glu Phe His Lys Gln Thr Ser Asp
         50                  55                  60

Gly Asn Trp Leu Met Val His Arg Thr Glu Val Val Lys Asn Asn Leu
 65                  70                  75                  80

Asn Pro Val Trp Xaa Pro Phe Xaa Ile Ser Leu Asn Ser Leu Cys Xaa
                 85                  90                  95

Gly Asp Met Asp Lys Thr Ile Lys Val Glu Cys Tyr Asp Tyr Asp Asn
             100                 105                 110

Asp Gly Ser His Asp Leu Ile Gly Thr Phe Gln Thr Thr Met Thr Lys
         115                 120                 125

Leu Lys Glu Ala Ser Arg Ser Ser Pro Val Glu Xaa Glu Cys Ile Asn
     130                 135                 140

Glu Lys Lys Arg Gln Lys Lys Lys Ser Tyr Lys Asn Ser Gly Val Ile
145                 150                 155                 160

Ser Val Lys Gln Cys Glu Ile Thr Val Glu Cys Thr Phe Leu Asp Tyr
```

```
                165                    170                    175
Ile Met Gly Gly Cys Gln Leu Asn Phe Thr Val Gly Val Asp Phe Thr
         180                185                190

Gly Ser Asn Gly Asp Pro Arg Ser Pro Asp Ser Leu His Tyr Ile Ser
         195                200                205

Pro Asn Gly Val Asn Glu Tyr Leu Thr Ala Leu Trp Ser Val Gly Leu
    210                215                220

Val Ile Gln Asp Tyr Asp Ala Asp Lys Met Phe Pro Ala Phe Gly Phe
225                230                235                240

Gly Ala Gln Ile Pro Pro Gln Trp Gln Val Ser His Glu Phe Pro Met
             245                250                255

Asn Phe Asn Pro Ser Asn Pro Tyr Cys Asn Gly Ile Gln Gly Ile Val
         260                265                270

Glu Ala Tyr Arg Ser Cys Leu Pro Gln Ile Lys Leu Tyr Gly Pro Thr
         275                280                285

Asn Phe Ser Pro Ile Ile Asn His Val Ala Arg Phe Ala Ala Ala Ala
    290                295                300

Thr Gln Gln Gln Thr Ala Ser Gln Tyr Xaa Val Leu Leu Ile Ile Thr
305                310                315                320

Asp Gly Val Ile Thr Asp Leu Asp Glu Thr Arg Gln Ala Ile Val Asn
             325                330                335

Ala Ser Ser Cys Leu Cys Pro Ser
             340
```

<210> 1155
<211> 120
<212> PRT
<213> Homo sapiens

<400> 1155

```
Tyr Phe Ile Glu Gly Leu Cys Ala Lys Asn Tyr Ala Tyr Leu Tyr Ile
  1             5                10                15

Gly Gln Leu Ser Leu Ile Ile Tyr Leu Leu Lys Leu His Val Tyr His
             20                25                30

Ile Ser Leu Ser Gly His Ile Gln Cys His Val Asp Val Pro Leu Ser
         35                40                45
```

```
Phe Ile Glu Lys Leu Pro His Ser Pro Cys Leu Leu Phe Ser Ala Met
    50                  55                  60

Pro Gln Gly Ser Glu Leu Ser Thr Thr Asp Ser Cys Gly Phe Ser Glu
65              70                  75                  80

Ala Ala His Cys Gln Gly Gln Ala Glu Arg Gly Pro Ala Cys Cys Gly
                85                  90                  95

Gly Cys Leu Ala Gln Met Ser Ile Tyr Leu Pro Pro Ser His Leu Ala
            100             105             110

Ser Cys Pro Leu Asp Met Cys Cys
            115             120
```

```
<210> 1156
<211> 469
<212> PRT
<213> Homo sapiens

<400> 1156
Gly Gly Trp Arg Trp Lys Leu Arg Glu Ser Gly Ala Ile Ala Pro Arg
    1               5                   10                  15

Asp Ser Gln Ser Arg Pro Leu Gln Ser Leu Arg Gln Leu Ala Leu Arg
                20                  25                  30

Val Gly Val Ala Pro Ala Ala Ala Met Ser Gly Gly Val Tyr Gly Gly
            35                  40                  45

Asp Glu Val Gly Ala Leu Val Phe Asp Ile Gly Ser Tyr Thr Val Arg
    50                  55                  60

Ala Gly Tyr Ala Gly Glu Asp Cys Pro Lys Val Asp Phe Pro Thr Ala
65              70                  75                  80

Ile Gly Met Val Val Glu Arg Asp Asp Gly Ser Thr Leu Met Glu Ile
                85                  90                  95

Asp Gly Asp Lys Gly Lys Gln Gly Gly Pro Thr Tyr Tyr Ile Asp Thr
            100             105             110

Asn Ala Leu Arg Val Pro Arg Glu Asn Met Glu Ala Ile Ser Pro Leu
            115             120             125

Lys Asn Gly Met Val Glu Asp Trp Asp Ser Phe Gln Ala Ile Leu Asp
    130             135             140
```

His Thr Tyr Lys Met His Val Lys Ser Glu Ala Ser Leu His Pro Val
145   150   155   160

Leu Met Ser Glu Ala Pro Trp Asn Thr Arg Ala Lys Arg Glu Lys Leu
                165   170   175

Thr Glu Leu Met Phe Glu His Tyr Asn Ile Pro Ala Phe Phe Leu Cys
            180   185   190

Lys Thr Ala Val Leu Thr Ala Phe Ala Asn Gly Arg Ser Thr Gly Leu
        195   200   205

Ile Leu Asp Ser Gly Ala Thr His Thr Thr Ala Ile Pro Val His Asp
    210   215   220

Gly Tyr Val Leu Gln Gln Gly Ile Val Lys Ser Pro Leu Ala Gly Asp
225   230   235   240

Phe Ile Thr Met Gln Cys Arg Glu Leu Phe Gln Glu Met Asn Ile Glu
            245   250   255

Leu Val Pro Pro Tyr Met Ile Ala Ser Lys Glu Ala Val Arg Glu Gly
        260   265   270

Ser Pro Ala Asn Trp Lys Arg Lys Glu Lys Leu Pro Gln Val Thr Arg
    275   280   285

Ser Trp His Asn Tyr Met Cys Asn Cys Val Ile Gln Asp Phe Gln Ala
    290   295   300

Ser Val Leu Gln Val Ser Asp Ser Thr Tyr Asp Glu Gln Val Ala Ala
305   310   315   320

Gln Met Pro Thr Val His Tyr Glu Phe Pro Asn Gly Tyr Asn Cys Asp
            325   330   335

Phe Gly Ala Glu Arg Leu Lys Ile Pro Glu Gly Leu Phe Asp Pro Ser
        340   345   350

Asn Val Lys Gly Leu Ser Gly Asn Thr Met Leu Gly Val Ser His Val
        355   360   365

Val Thr Thr Ser Val Gly Met Cys Asp Ile Asp Ile Arg Pro Gly Leu
    370   375   380

Tyr Gly Ser Val Ile Val Ala Gly Gly Asn Thr Leu Ile Gln Ser Phe
385   390   395   400

Thr Asp Arg Leu Asn Arg Glu Leu Ser Gln Lys Thr Pro Pro Ser Met
            405   410   415

```
Arg Leu Lys Leu Ile Ala Asn Asn Thr Thr Val Glu Arg Arg Phe Ser
            420             425               430

Ser Trp Ile Gly Gly Ser Ile Leu Ala Ser Leu Gly Thr Phe Gln Gln
            435             440               445

Met Trp Ile Ser Lys Gln Glu Tyr Glu Glu Gly Gly Lys Gln Cys Val
    450             455               460

Glu Arg Lys Cys Pro
465
```

```
<210> 1157
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1157
Thr Ala Leu Cys Pro Arg Ile His Glu Val Pro Leu Leu Glu Pro Leu
  1             5               10                15

Val Cys Xaa Lys Ile Ala Gln Glu Arg Leu Thr Val Leu Leu Phe Leu
            20              25                30

Glu Asp Cys Ile Ile Thr Ala Cys Gln Glu Gly Leu Ile Cys Thr Trp
            35              40                45

Xaa Arg Pro Gly Lys Ala Phe Thr Asp Glu Glu Thr Glu Ala Gln Thr
    50              55              60

Gly Glu Gly Ser Trp Pro Arg Ser Pro Ser Lys Ser Val Val Glu Gly
  65              70              75              80

Ile Ser Ser Gln Pro Gly Asn Ser Pro Ser Gly Thr Val Val
                85              90
```

```
<210> 1158
```

<211> 114
<212> PRT
<213> Homo sapiens

<400> 1158
```
Leu Ser Pro Gln Trp Thr His Leu Leu Val Lys Gly Ala Val Val Leu
 1               5                  10                  15

Cys Gly Ser Gln Phe Thr Ser Phe Pro Lys Ile Gln Cys Asp His Pro
             20                  25                  30

Val Asn Gly His Thr Ser Ser Glu Ile Asn Phe Gln Asn Leu Cys Ser
         35                  40                  45

Ser Ser Tyr Pro Leu Arg Val Ile Met Ala Asn Lys Gln Lys Ala Leu
     50                  55                  60

Val Gln Ala Pro Pro Asn Thr Leu Asn Leu Asn Leu Asn Met Leu Lys
 65                  70                  75                  80

Phe Glu Asn Lys Glu Thr Phe Phe Ile Ser Leu Ser Gly Leu Ser Leu
                 85                  90                  95

Val Leu Met Gly Leu Leu Met Ala Phe Gln Ser Val Ala Glu Ala Ile
                100                 105                 110

Ile Phe
```

<210> 1159
<211> 155
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1159
```
Pro Trp Gly Ala Trp Arg Gln Gly Ala Arg Ala Ala Gln Ser Pro Phe
 1               5                  10                  15

Ser Ile Pro Asn Ser Ser Ser Val Pro Tyr Gly Ser Gln Asp Ser Val
```

```
                    20                      25                      30

    His Ser Ser Pro Glu Asp Gly Gly Gly Gly Xaa Asp Arg Xaa Gly Gly
            35                  40                  45

    Thr Gly Gly Pro Arg Leu Val Ile Gly Ser Leu Pro Ala His Leu Ser
        50                  55                  60

    Pro His Met Phe Gly Gly Phe Lys Cys Pro Val Cys Ser Lys Phe Val
    65                  70                  75                  80

    Ser Ser Asp Glu Met Asp Leu His Leu Val Met Cys Leu Thr Lys Pro
                    85                  90                  95

    Arg Ile Thr Tyr Asn Glu Asp Val Leu Ser Lys Asp Ala Gly Glu Cys
                    100                 105                 110

    Ala Ile Cys Leu Glu Glu Leu Gln Gln Gly Asp Thr Ile Ala Arg Leu
            115                 120                 125

    Pro Cys Leu Cys Ile Tyr His Lys Gly Cys Ile Asp Glu Trp Phe Glu
        130                 135                 140

    Val Asn Arg Ser Cys Pro Glu His Pro Ser Asp
    145                 150                 155
```

<210> 1160
<211> 337
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (169)

```
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1160
Cys Leu Gly Cys Lys Pro Asp Gln Pro Leu Arg Ala Glu Gly Arg Leu
 1               5                  10                  15

Leu Ala Pro Ser Gly Asn Pro Ala Pro Ser Pro Gly Ser Glu Arg Leu
                20                  25                  30

Ala Gly Asp Asp Thr Xaa Ser Ala Pro Ala Ala Pro Ser Xaa Gly Cys
            35                  40                  45

Gly Lys Arg Arg Glu Ser Asp Ala Gly Ala Gly Gly Glu Arg Ala Ser
        50                  55                  60

Val Arg Thr Gly Ser Gly Arg Arg Gly Gly Ala Asn His Gly Arg Gly
 65                  70                  75                  80

Gln Arg Ala Asp Pro Ala Glu Pro Pro Ala Ala Gln Arg Arg Arg Ala
                85                  90                  95

Leu Pro Tyr Arg Arg His Gly Gly Thr Ala Ser Gly Lys Ser Ser Val
            100                 105                 110

Cys Ala Lys Ile Val Gln Leu Leu Gly Gln Asn Glu Val Asp Tyr Arg
        115                 120                 125

Gln Lys Gln Val Val Ile Leu Ser Gln Asp Ser Phe Tyr Arg Val Leu
        130                 135                 140

Thr Ser Glu Gln Lys Ala Lys Ala Leu Lys Xaa Gln Phe Asn Phe Asp
145                 150                 155                 160

His Pro Asp Ala Phe Asp Asn Glu Xaa Ile Leu Lys Thr Leu Lys Glu
                165                 170                 175

Ile Thr Glu Gly Lys Thr Val Gln Ile Pro Val Tyr Asp Phe Val Ser
            180                 185                 190

His Ser Arg Lys Glu Glu Thr Val Thr Val Tyr Pro Ala Asp Val Val
            195                 200                 205

Leu Phe Glu Gly Ile Leu Ala Phe Tyr Ser Gln Glu Val Arg Asp Leu
        210                 215                 220

Phe Gln Met Lys Leu Phe Val Asp Thr Asp Ala Asp Thr Arg Leu Ser
225                 230                 235                 240

Arg Arg Val Leu Arg Asp Ile Ser Glu Arg Gly Arg Asp Leu Glu Gln
                245                 250                 255
```

```
Ile Leu Ser Gln Tyr Ile Thr Phe Val Lys Pro Ala Phe Glu Glu Phe
        260             265             270

Cys Leu Pro Thr Lys Lys Tyr Ala Asp Val Ile Ile Pro Arg Gly Ala
        275             280             285

Asp Asn Leu Val Ala Ile Asn Leu Ile Val Gln His Ile Gln Asp Ile
        290             295             300

Leu Asn Gly Gly Pro Ser Lys Arg Gln Thr Asn Gly Cys Leu Asn Gly
305             310             315             320

Tyr Thr Pro Ser Arg Lys Arg Gln Ala Ser Glu Ser Ser Ser Arg Pro
            325             330             335

His
```

```
<210> 1161
<211> 330
<212> PRT
<213> Homo sapiens

<400> 1161
Ala Arg Gly Met Phe Gly Leu Gly Asn Glu Phe Lys Pro Leu Asn Val
 1               5               10              15

Gln Glu Arg Glu Ala Gln Phe Gly Thr Thr Ala Glu Ile Tyr Ala Tyr
            20              25              30

Arg Glu Glu Gln Asp Phe Gly Ile Glu Ile Val Lys Val Lys Ala Ile
        35              40              45

Gly Arg Gln Arg Phe Lys Val Leu Glu Leu Arg Thr Gln Ser Asp Gly
    50              55              60

Ile Gln Gln Ala Lys Val Gln Ile Leu Pro Glu Cys Val Leu Pro Ser
65              70              75              80

Thr Met Ser Ala Val Gln Leu Glu Ser Leu Asn Lys Cys Gln Ile Phe
            85              90              95

Pro Ser Lys Pro Val Ser Arg Glu Asp Gln Cys Ser Tyr Lys Trp Trp
            100             105             110

Gln Lys Tyr Gln Lys Arg Lys Phe His Cys Ala Asn Leu Thr Ser Trp
        115             120             125

Pro Arg Trp Leu Tyr Ser Leu Tyr Asp Ala Glu Thr Leu Met Asp Arg
```

```
              130                    135                    140

    Ile Lys Lys Gln Leu Arg Glu Trp Asp Glu Asn Leu Lys Asp Asp Ser
    145                 150                 155                 160

    Leu Pro Ser Asn Pro Ile Asp Phe Ser Tyr Arg Val Ala Ala Cys Leu
                    165                 170                 175

    Pro Ile Asp Asp Val Leu Arg Ile Gln Leu Leu Lys Ile Gly Ser Ala
                    180                 185                 190

    Ile Gln Arg Leu Arg Cys Glu Leu Asp Ile Met Asn Lys Cys Thr Ser
                195                 200                 205

    Leu Cys Cys Lys Gln Cys Gln Glu Thr Glu Ile Thr Thr Lys Asn Glu
        210                 215                 220

    Ile Phe Ser Leu Ser Leu Cys Gly Pro Met Ala Ala Tyr Val Asn Pro
    225                 230                 235                 240

    His Gly Tyr Val His Glu Thr Leu Thr Val Tyr Lys Ala Cys Asn Leu
                    245                 250                 255

    Asn Leu Ile Gly Arg Pro Ser Thr Glu His Ser Trp Phe Pro Gly Tyr
                260                 265                 270

    Ala Trp Thr Val Ala Gln Cys Lys Ile Cys Ala Ser His Ile Gly Trp
            275                 280                 285

    Lys Phe Thr Ala Thr Lys Lys Asp Met Ser Pro Gln Lys Phe Trp Gly
        290                 295                 300

    Leu Thr Arg Ser Ala Leu Leu Pro Thr Ile Pro Asp Thr Glu Asp Glu
    305                 310                 315                 320

    Ile Ser Pro Asp Lys Val Ile Leu Cys Leu
                    325                 330
```

<210> 1162
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (153)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1162
```
Cys Arg Lys Thr Ala Gln Pro Thr Ala Ala Glu Met Lys Tyr Lys Asn
 1               5                  10                  15

Leu Met Ala Arg Ala Leu Tyr Asp Asn Val Pro Glu Cys Ala Glu Glu
                20                  25                  30

Leu Ala Phe Arg Lys Gly Asp Ile Leu Thr Val Ile Glu Gln Asn Thr
                35                  40                  45

Gly Gly Leu Glu Gly Trp Trp Leu Cys Ser Leu His Gly Arg Gln Gly
        50                  55                  60

Ile Val Pro Gly Asn Arg Val Lys Leu Leu Ile Gly Pro Met Gln Glu
 65                  70                  75                  80

Thr Ala Ser Ser His Glu Gln Pro Ala Ser Gly Leu Met Gln Gln Thr
                85                  90                  95

Phe Gly Gln Gln Lys Leu Tyr Gln Val Pro Asn Pro Thr Gly Leu Leu
               100                 105                 110

Pro Pro Arg His Pro Phe Leu Pro Lys Val Pro Thr Leu Ser Leu Thr
               115                 120                 125

Gln Lys Ile Lys Gly Glu Ile Phe Thr Gln Arg Phe Pro Gln Leu Xaa
               130                 135                 140

Ala Gln Arg Xaa Thr Pro Lys Gly Xaa Lys Gly Gly Val Leu Phe Arg
145                 150                 155                 160

Val Ala Pro Pro Xaa
                165
```

<210> 1163

```
<211> 195
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (186)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1163
Phe Leu Asn Arg Glu Leu Ile Val Lys Ser Ser Met Ala Thr Gly Gly
 1               5                  10                  15

Gly Pro Phe Glu Asp Gly Met Asn Asp Gln Asp Leu Pro Asn Trp Ser
             20                  25                  30

Asn Glu Asn Val Asp Asp Arg Leu Asn Asn Met Asp Trp Gly Ala Gln
         35                  40                  45

Gln Lys Lys Ala Asn Arg Ser Ser Glu Lys Asn Lys Lys Lys Phe Gly
     50                  55                  60

Val Glu Ser Asp Lys Arg Val Thr Asn Asp Ile Ser Pro Glu Ser Ser
 65                  70                  75                  80

Pro Gly Val Gly Arg Arg Arg Thr Lys Thr Pro His Thr Phe Pro His
             85                  90                  95

Ser Arg Tyr Met Ser Gln Met Ser Val Pro Glu Gln Ala Glu Leu Glu
             100                 105                 110

Lys Leu Lys Gln Arg Ile Asn Phe Ser Asp Leu Asp Gln Arg Ser Ile
         115                 120                 125

Gly Ser Asp Ser Gln Gly Arg Ala Thr Ala Ala Asn Asn Lys Arg Gln
     130                 135                 140

Leu Ser Glu Asn Arg Lys Pro Phe Asn Phe Leu Pro Met Gln Ile Asn
145                 150                 155                 160

Thr Asn Lys Glu Gln Arg Cys Ile Leu Gln Val Pro Gln Thr Glu Glu
                 165                 170                 175

Thr Val Gly Phe Ser Thr Val Leu Lys Xaa Cys Phe Ala Phe Trp Phe
             180                 185                 190

Leu Ser Asn
         195
```

<210> 1164
<211> 300
<212> PRT
<213> Homo sapiens

<400> 1164

```
Arg Arg Pro Ser Ala Arg Arg Glu Leu Gly Lys Gly Arg Gln Arg Arg
 1               5                  10                  15

Arg Arg Gln Arg Gln Arg Gln Ser Pro Val Pro Arg Pro Ser Asp Arg
                20              25              30

Pro Ala Gly Leu Gly Leu Ala Lys Pro Ala Arg Arg Ala Leu Pro Thr
            35              40              45

Pro Glu Pro Gly Arg Lys Ser Ser Asp Ser Ser Leu Ala Ser Pro Gly
    50              55              60

Ala Ala Leu Gln Thr Gly Pro Val Val Arg Gly Ser Gly Ala Asp Pro
65              70              75              80

Glu Ala Gly Phe Ala Gln Pro Pro Thr Arg Ala Gly Pro Leu Glu Gly
                85              90              95

Ala Phe Asn Ser Arg Thr Arg Gln Ala Thr Met Thr Glu Asn Ser Thr
            100             105             110

Ser Ala Pro Ala Ala Lys Pro Lys Arg Ala Lys Ala Ser Lys Lys Ser
            115             120             125

Thr Asp His Pro Lys Tyr Ser Asp Met Ile Val Ala Ala Ile Gln Ala
    130             135             140

Glu Lys Asn Arg Ala Gly Ser Ser Arg Gln Ser Ile Gln Lys Tyr Ile
145             150             155             160

Lys Ser His Tyr Lys Val Gly Glu Asn Ala Asp Ser Gln Ile Lys Leu
            165             170             175

Ser Ile Lys Arg Leu Val Thr Thr Gly Val Leu Lys Gln Thr Lys Gly
            180             185             190

Val Gly Ala Ser Gly Ser Phe Arg Leu Ala Lys Ser Asp Glu Pro Lys
            195             200             205

Lys Ser Val Ala Phe Lys Lys Thr Lys Lys Glu Ile Lys Lys Val Ala
    210             215             220

Thr Pro Lys Lys Ala Ser Lys Pro Lys Lys Ala Ala Ser Lys Ala Pro
225             230             235             240
```

```
Thr Lys Lys Pro Lys Ala Thr Pro Val Lys Lys Ala Lys Lys Lys Leu
             245             250             255

Ala Ala Thr Pro Lys Lys Ala Lys Lys Pro Lys Thr Val Lys Ala Lys
             260             265             270

Pro Val Lys Ala Ser Lys Pro Lys Lys Ala Lys Pro Val Lys Pro Lys
             275             280             285

Ala Lys Ser Ser Ala Lys Arg Ala Gly Lys Lys Lys
        290             295             300
```

```
<210> 1165
<211> 150
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1165
Ser Thr His Ala Ser Ala His Ala Ser Gly Lys Gln Glu Ile Val Asp
 1               5               10              15

Pro Pro Ser Lys Met Glu Asp Gly Lys Pro Val Trp Ala Pro His Pro
             20              25              30

Thr Asp Gly Phe Gln Met Gly Asn Ile Val Asp Ile Gly Pro Asp Ser
         35              40              45

Leu Thr Ile Glu Pro Leu Asn Gln Lys Gly Lys Thr Phe Leu Ala Leu
     50              55              60

Ile Asn Gln Val Phe Pro Ala Glu Glu Asp Ser Lys Lys Asp Val Glu
 65              70              75              80

Asp Asn Cys Ser Leu Met Tyr Leu Asn Glu Ala Thr Leu Leu His Asn
             85              90              95

Ile Lys Val Arg Tyr Ser Lys Asp Arg Ile Tyr Thr Tyr Val Ala Asn
             100             105             110

Ile Leu Xaa Ala Val Asn Pro Tyr Phe Asp Ile Pro Lys Ile Tyr Leu
         115             120             125

Gln Ser Ile Lys Ser Tyr Gln Gly Lys Ser Leu Gly Thr Arg Pro Pro
     130             135             140
```

```
Pro Gly Leu Cys Asn Cys
145             150
```

```
<210> 1166
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1166
Ala Ile Trp Pro Leu Arg Gly Leu Leu Arg Tyr Arg Gln Phe Cys Gly
 1               5                  10                  15

Ala Ala Ser Ala Ala Pro Arg Arg Ser Asn Met Leu Arg Ile Pro Leu
            20                  25                  30

Arg Arg Ala Leu Val Xaa Leu Ser Asn Lys Ser Ser Lys Gly Cys Val
        35                  40                  45

Arg Thr Thr Ala Thr Ala Ala Ser Asn Leu Ile Glu Val Phe Val Asp
    50                  55                  60

Gly Gln Ser Val Met Val Glu Pro Gly Thr Thr Val Leu Gln Ala Cys
65                  70                  75                  80

Glu Lys Val Gly
```

```
<210> 1167
<211> 348
<212> PRT
<213> Homo sapiens

<400> 1167
Leu Ile Phe Cys Gly Cys Trp Leu Phe Ala Ser Leu Thr Val Met Glu
 1               5                  10                  15

Ala Ala His Phe Phe Glu Gly Thr Glu Lys Leu Leu Glu Val Trp Phe
            20                  25                  30

Ser Arg Gln Gln Pro Asp Ala Asn Gln Gly Ser Gly Asp Leu Arg Thr
        35                  40                  45
```

```
Ile Pro Arg Ser Glu Trp Asp Ile Leu Leu Lys Asp Val Gln Cys Ser
    50              55              60

Ile Ile Ser Val Thr Lys Thr Asp Lys Gln Glu Ala Tyr Val Leu Ser
    65              70              75              80

Glu Ser Ser Met Phe Val Ser Lys Arg Arg Phe Ile Leu Lys Thr Cys
                85              90              95

Gly Thr Thr Leu Leu Leu Lys Ala Leu Val Pro Leu Leu Lys Leu Ala
            100             105             110

Arg Asp Tyr Ser Gly Phe Asp Ser Ile Gln Ser Phe Phe Tyr Ser Arg
        115             120             125

Lys Asn Phe Met Lys Pro Ser His Gln Gly Tyr Pro His Arg Asn Phe
    130             135             140

Gln Glu Glu Ile Glu Phe Leu Asn Ala Ile Phe Pro Asn Gly Ala Ala
145             150             155             160

Tyr Cys Met Gly Arg Met Asn Ser Asp Cys Trp Tyr Leu Tyr Thr Leu
            165             170             175

Asp Phe Pro Glu Ser Arg Val Ile Ser Gln Pro Asp Gln Thr Leu Glu
        180             185             190

Ile Leu Met Ser Glu Leu Asp Pro Ala Val Met Asp Gln Phe Tyr Met
        195             200             205

Lys Asp Gly Val Thr Ala Lys Asp Val Thr Arg Glu Ser Gly Ile Arg
    210             215             220

Asp Leu Ile Pro Gly Ser Val Ile Asp Ala Thr Met Phe Asn Pro Cys
225             230             235             240

Gly Tyr Ser Met Asn Gly Met Lys Ser Asp Gly Thr Tyr Trp Thr Ile
            245             250             255

His Ile Thr Pro Glu Pro Glu Phe Ser Tyr Val Ser Phe Glu Thr Asn
            260             265             270

Leu Ser Gln Thr Ser Tyr Asp Asp Leu Ile Arg Lys Val Val Glu Val
        275             280             285

Phe Lys Pro Gly Lys Phe Val Thr Thr Leu Phe Val Asn Gln Ser Ser
    290             295             300

Lys Cys Arg Thr Val Leu Ala Ser Pro Gln Lys Ile Glu Gly Phe Lys
305             310             315             320
```

```
Arg Leu Asp Cys Gln Ser Ala Met Phe Asn Asp Tyr Asn Phe Val Phe
              325                 330             335

Thr Ser Phe Ala Lys Lys Gln Gln Gln Gln Ser
          340                 345
```

```
<210> 1168
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1168
Ser Ser Gln Arg Leu Gln Gly Arg Ala Arg Ala Val Leu Ser Pro Pro
  1               5                 10                  15

Ala Pro Xaa Ser Asn Val Gly Thr Gly Glu Lys Lys Val Thr Glu Ala
              20                  25                  30

Trp Ile Ser Glu Asp Glu Asn Ser His Arg Thr Thr Ser Asp Arg Leu
          35                  40                  45

Thr Val Met Glu Leu Pro Ser Pro Glu Ser Glu Glu Val His Glu Pro
      50                  55                  60

Arg Leu Gly Glu Leu Leu Gly Asn Pro Glu Gly Gln Ser Leu Gly Ser
 65                 70                  75                  80

Ser Pro Ser Gln Asp Arg Gly Cys Asn Arg
              85                  90
```

```
<210> 1169
<211> 277
<212> PRT
<213> Homo sapiens

<400> 1169
Arg Ser Thr Arg Trp Arg Pro Lys Val Met Trp His Leu Leu Arg Arg
  1               5                 10                  15

Tyr Met Ala Ser Arg Leu His Ser Leu Arg Met Gly Gly Tyr Leu Phe
              20                  25                  30
```

Ser Gly Ser Gln Ala Pro Gln Leu Ser Pro Ala Leu Leu Arg Ala Leu
        35   40   45

Gly Gln Lys Cys Pro Asn Leu Lys Arg Leu Cys Leu His Val Ala Asp
        50   55   60

Leu Ser Met Val Pro Ile Thr Ser Leu Pro Ser Thr Leu Arg Thr Leu
65   70   75   80

Glu Leu His Ser Cys Glu Ile Ser Met Ala Trp Leu His Lys Gln Gln
                85   90   95

Asp Pro Thr Val Leu Pro Leu Leu Glu Cys Ile Val Leu Asp Arg Val
            100   105   110

Pro Ala Phe Arg Asp Glu His Leu Gln Gly Leu Thr Arg Phe Arg Ala
        115   120   125

Leu Arg Ser Leu Val Leu Gly Gly Thr Tyr Arg Val Thr Glu Thr Gly
        130   135   140

Leu Asp Ala Gly Leu Gln Glu Leu Ser Tyr Leu Gln Arg Leu Glu Val
145   150   155   160

Leu Gly Cys Thr Leu Ser Ala Asp Ser Thr Leu Leu Ala Ile Ser Arg
                165   170   175

His Leu Pro Arg Cys Ala Gln Asp Pro Ala Asp Arg Glu Gly Leu Ser
            180   185   190

Ala Pro Gly Leu Ala Val Leu Glu Gly Met Pro Ala Leu Glu Ser Leu
        195   200   205

Cys Leu Gln Gly Pro Leu Val Thr Pro Glu Met Pro Ser Pro Thr Glu
        210   215   220

Ile Leu Ser Ser Cys Leu Thr Met Pro Lys Leu Arg Val Leu Glu Leu
225   230   235   240

Gln Gly Leu Gly Trp Glu Gly Gln Glu Ala Glu Lys Ile Leu Cys Lys
                245   250   255

Gly Leu Pro His Cys Met Val Ile Val Arg Ala Cys Pro Lys Glu Ser
            260   265   270

Met Asp Trp Trp Met
        275

<210> 1170
<211> 489
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (349)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (351)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (356)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (362)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1170
Thr Arg Val Phe Lys Glu Leu Glu Asn Thr Gly Lys Leu Ile Cys Ser
 1   5   10   15

Pro Thr His Ile Asp Arg Val Arg Leu Phe Leu Met Gln Leu Arg Lys
                20   25   30

Met Gln Thr Val Lys Lys Glu Gln Ala Ser Leu Asp Ala Ser Ser Asn
                35   40   45

Val Asp Lys Met Met Val Leu Asn Ser Ala Leu Thr Glu Val Ser Glu
        50   55   60

Asp Ser Thr Thr Gly Glu Glu Leu Leu Leu Ser Glu Gly Ser Val Gly
65   70   75   80

Lys Asn Lys Ser Ser Ala Cys Arg Arg Lys Arg Glu Phe Ile Pro Asp
                85   90   95

Glu Lys Lys Asp Ala Met Tyr Trp Glu Lys Arg Arg Lys Asn Asn Glu
                100   105   110

Ala Ala Lys Arg Ser Arg Glu Lys Arg Arg Leu Asn Asp Leu Val Leu
                115   120   125

Glu Asn Lys Leu Ile Ala Leu Gly Glu Glu Asn Ala Thr Leu Lys Ala

```
           130                      135                      140

     Glu Leu Leu Ser Leu Lys Leu Lys Phe Gly Leu Ile Ser Ser Thr Ala
     145                   150                   155                   160

     Tyr Ala Gln Glu Ile Gln Lys Leu Ser Asn Ser Thr Ala Val Tyr Phe
                       165                   170                   175

     Gln Asp Tyr Gln Thr Ser Lys Ser Asn Val Ser Ser Phe Val Asp Glu
                   180                   185                   190

     His Glu Pro Ser Met Val Ser Ser Ser Cys Ile Ser Val Ile Lys His
                   195                   200                   205

     Ser Pro Gln Ser Ser Leu Ser Asp Val Ser Glu Val Ser Ser Val Glu
             210                   215                   220

     His Thr Gln Glu Ser Ser Val Gln Gly Ser Cys Arg Ser Pro Glu Asn
     225                   230                   235                   240

     Lys Phe Gln Ile Ile Lys Gln Glu Pro Met Glu Leu Glu Ser Tyr Thr
                       245                   250                   255

     Arg Glu Pro Arg Asp Asp Arg Gly Ser Tyr Thr Ala Ser Ile Tyr Gln
                   260                   265                   270

     Asn Tyr Met Gly Asn Ser Phe Ser Gly Tyr Ser His Ser Pro Pro Leu
                   275                   280                   285

     Leu Gln Val Asn Arg Ser Ser Ser Asn Ser Pro Arg Thr Ser Glu Thr
             290                   295                   300

     Asp Asp Gly Val Val Gly Lys Ser Ser Asp Gly Glu Asp Glu Gln Gln
     305                   310                   315                   320

     Val Pro Lys Gly Pro Ile His Ser Pro Val Glu Leu Lys His Val His
                       325                   330                   335

     Ala Thr Val Val Lys Val Pro Glu Val Asn Ser Ser Xaa Leu Xaa His
                   340                   345                   350

     Lys Leu Arg Xaa Lys Ala Lys Ala Met Xaa Ile Lys Val Glu Ala Phe
             355                   360                   365

     Asp Asn Glu Phe Glu Ala Thr Gln Lys Leu Ser Ser Pro Ile Asp Met
             370                   375                   380

     Thr Ser Lys Arg His Phe Glu Leu Glu Lys His Ser Ala Pro Ser Met
     385                   390                   395                   400

     Val His Ser Ser Leu Thr Pro Phe Ser Val Gln Val Thr Asn Ile Gln
```

```
                  405                        410                        415
```

Asp Trp Ser Leu Lys Ser Glu His Trp His Gln Lys Glu Leu Ser Gly
              420   425   430

Lys Thr Gln Asn Ser Phe Lys Thr Gly Val Val Glu Met Lys Asp Ser
              435   440   445

Gly Tyr Lys Val Ser Asp Pro Glu Asn Leu Tyr Leu Lys Gln Gly Ile
          450   455   460

Ala Asn Leu Ser Ala Glu Val Val Ser Leu Lys Arg Leu Ile Ala Thr
465   470   475   480

Gln Pro Ile Ser Ala Ser Asp Ser Gly
                  485

<210> 1171
<211> 49
<212> PRT
<213> Homo sapiens

<400> 1171
Gly Gly Val Thr Lys Arg Gln Ile Leu His Met Ile Pro Leu Val Ile
 1   5   10   15

Pro Arg Val Lys Phe Met Glu Thr Glu Ser Arg Lys Val Val Thr Ser
              20   25   30

Gly Trp Glu Gly Glu Asn Val Glu Phe Asn Gly Tyr Arg Ile Leu Val
          35   40   45

Leu

<210> 1172
<211> 442
<212> PRT
<213> Homo sapiens

<400> 1172
Ala Glu Ala Arg Ala Lys Ala Glu Ala Ala Gly Leu Arg Glu Ala Ala
 1   5   10   15

Ala Arg Arg Arg Ser Leu Ser Pro Ala Thr Met Ser Thr Lys Gln Ile
              20   25   30

```
Thr Cys Arg Tyr Phe Met His Gly Val Cys Arg Glu Gly Ser Gln Cys
        35              40              45

Leu Phe Ser His Asp Leu Ala Asn Ser Lys Pro Ser Thr Ile Cys Lys
    50              55              60

Tyr Tyr Gln Lys Gly Tyr Cys Ala Tyr Gly Thr Arg Cys Arg Tyr Asp
65              70              75              80

His Thr Arg Pro Ser Ala Ala Ala Gly Gly Ala Val Gly Thr Met Ala
            85              90              95

His Ser Val Pro Ser Pro Ala Phe His Ser Pro His Pro Pro Ser Glu
            100             105             110

Val Thr Ala Ser Ile Val Lys Thr Asn Ser His Glu Pro Gly Lys Arg
        115             120             125

Glu Lys Arg Thr Leu Val Leu Arg Asp Arg Asn Leu Ser Gly Met Ala
    130             135             140

Glu Arg Lys Thr Gln Pro Ser Met Val Ser Asn Pro Gly Ser Cys Ser
145             150             155             160

Asp Pro Gln Pro Ser Pro Glu Met Lys Pro His Ser Tyr Leu Asp Ala
            165             170             175

Ile Arg Ser Gly Leu Asp Asp Val Glu Ala Ser Ser Ser Tyr Ser Asn
            180             185             190

Glu Gln Gln Leu Cys Pro Tyr Ala Ala Ala Gly Glu Cys Arg Phe Gly
    195             200             205

Asp Ala Cys Phe Tyr Leu His Gly Glu Val Cys Glu Ile Cys Arg Leu
    210             215             220

Gln Val Leu His Pro Phe Asp Pro Glu Gln Arg Lys Ala His Glu Lys
225             230             235             240

Ile Cys Met Leu Thr Phe Glu His Glu Met Glu Lys Ala Phe Ala Phe
            245             250             255

Gln Ala Ser Gln Asp Lys Val Cys Ser Ile Cys Met Glu Val Ile Leu
            260             265             270

Glu Lys Ala Ser Ala Ser Glu Arg Arg Phe Gly Ile Leu Ser Asn Cys
    275             280             285

Asn His Thr Tyr Cys Leu Ser Cys Ile Arg Gln Trp Arg Cys Ala Lys
    290             295             300
```

```
Gln Phe Glu Asn Pro Ile Ile Lys Ser Cys Pro Glu Cys Arg Val Ile
305             310             315             320

Ser Glu Phe Val Ile Pro Ser Val Tyr Trp Val Glu Asp Gln Asn Lys
                325             330             335

Lys Asn Glu Leu Ile Glu Ala Phe Lys Gln Gly Met Gly Lys Lys Ala
                340             345             350

Cys Lys Tyr Phe Glu Gln Gly Lys Gly Thr Cys Pro Phe Gly Ser Lys
            355             360             365

Cys Leu Tyr Arg His Ala Tyr Pro Asp Gly Arg Leu Ala Glu Pro Glu
        370             375             380

Lys Pro Arg Lys Gln Leu Ser Ser Gln Gly Thr Val Arg Phe Phe Asn
385             390             395             400

Ser Val Arg Leu Trp Asp Phe Ile Glu Asn Arg Glu Ser Arg His Val
                405             410             415

Pro Asn Asn Glu Asp Val Asp Met Thr Glu Leu Gly Asp Leu Phe Met
            420             425             430

His Leu Ser Gly Val Glu Ser Ser Glu Pro
        435             440
```

```
<210> 1173
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1173
Leu Glu Phe Trp Leu Leu Cys Leu Xaa Ser Arg His Leu Leu Tyr Gln
```

```
      1                5                      10                        15

      Leu Leu Trp Asn Met Phe Ser Lys Glu Val Glu Leu Ala Asp Ser Met
                  20                  25                  30

      Gln Thr Leu Phe Arg Gly Asn Ser Leu Ala Ser Lys Ile Met Thr Phe
                  35                  40                  45

      Cys Phe Lys Val Tyr Gly Ala Thr Tyr Leu Gln Lys Leu Leu Xaa Pro
                  50                  55                  60

      Leu Leu Arg Ile Val Ile Thr Ser Ser Asp Trp Gln His Val Ser Phe
      65                  70                  75                  80

      Glu Val Asp Pro Thr Xaa Leu Glu Pro Ser Glu Ser Leu Glu Glu Asn
                          85                  90                  95

      Gln Arg Asn Leu Leu Gln Met Thr Glu Lys Phe Phe His Ala Ile Ile
                  100                 105                 110

      Ser Ser Ser Ser Glu Phe Pro Pro Gln Leu Arg Ser Val Cys His Cys
                  115                 120                 125

      Leu Tyr Gln Ala Thr Tyr His Ser Leu Leu Asn Lys Ala Thr
          130                 135                 140
```

```
<210> 1174
<211> 385
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (313)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1174
Pro Met Arg Arg Pro Arg Gly Glu Pro Gly Pro Arg Ala Pro Arg Pro
    1               5                   10                  15

Thr Glu Gly Ala Thr Cys Ala Gly Pro Gly Glu Ser Trp Ser Pro Ser
                20                  25                  30

Pro Asn Ser Met Leu Arg Val Leu Leu Ser Ala Gln Thr Ser Pro Ala
```

```
              35                      40                      45
     Arg Leu Ser Gly Leu Leu Leu Ile Pro Pro Val Gln Pro Cys Cys Leu
         50                  55                  60

     Gly Pro Ser Lys Trp Gly Asp Arg Pro Val Gly Gly Gly Pro Ser Ala
     65                  70                  75                  80

     Gly Pro Val Gln Gly Leu Gln Arg Leu Leu Glu Gln Ala Lys Ser Pro
                     85                  90                  95

     Gly Glu Leu Leu Arg Trp Leu Gly Gln Asn Pro Ser Lys Val Arg Ala
                 100                 105                 110

     His His Tyr Ser Val Ala Leu Arg Arg Leu Gly Gln Leu Leu Gly Ser
                 115                 120                 125

     Arg Pro Arg Pro Pro Pro Val Glu Gln Val Thr Leu Gln Asp Leu Ser
         130                 135                 140

     Gln Leu Ile Ile Arg Asn Cys Pro Ser Phe Asp Ile His Thr Ile His
     145                 150                 155                 160

     Val Cys Leu His Leu Ala Val Leu Leu Gly Phe Pro Ser Asp Gly Pro
                     165                 170                 175

     Leu Val Cys Ala Leu Glu Gln Glu Arg Arg Leu Ala Xaa Pro Pro Lys
                 180                 185                 190

     Pro Pro Pro Pro Leu Gln Pro Leu Leu Arg Gly Gly Gln Gly Leu Glu
                 195                 200                 205

     Ala Ala Leu Ser Cys Pro Arg Phe Leu Arg Tyr Pro Arg Gln His Leu
         210                 215                 220

     Ile Ser Ser Leu Ala Glu Ala Arg Pro Glu Glu Leu Thr Pro His Val
     225                 230                 235                 240

     Met Val Leu Leu Ala Gln His Leu Ala Arg His Arg Leu Arg Glu Pro
                     245                 250                 255

     Gln Leu Leu Glu Ala Ile Ala His Phe Leu Val Val Gln Glu Thr Gln
                 260                 265                 270

     Leu Ser Ser Lys Val Val Gln Lys Leu Val Leu Pro Phe Gly Arg Leu
                 275                 280                 285

     Asn Tyr Leu Pro Leu Glu Gln Gln Phe Met Pro Cys Leu Glu Arg Ile
         290                 295                 300

     Leu Ala Arg Glu Ala Gly Val Ala Xaa Leu Ala Thr Val Asn Ile Leu
```

```
          305                    310                    315                    320
      Met Ser Leu Cys Gln Leu Arg Cys Leu Pro Phe Arg Ala Leu His Phe
                      325                    330                    335

      Val Phe Ser Pro Gly Phe Ile Asn Tyr Ile Ser Gly Thr Gln Pro Gly
                      340                    345                    350

      Trp Leu Ala Gly Pro Leu Arg Ala Gly Glu Ala Gly Glu Gln Gly Gly
                      355                    360                    365

      Leu Gln Pro Arg Ala Pro Val Pro Ala Ser Pro Gln Ala Pro Leu Met
          370                    375                    380

      Leu
      385
```

```
<210> 1175
<211> 114
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1175
      His Glu Gln Asp Pro Lys Trp Gln Arg Cys Arg Leu Ser Trp Glu Ser
      1               5                   10                  15

      Glu Pro Leu Trp Leu Phe Gly Arg Leu Met Val Thr Leu Lys Tyr Cys
                      20                  25                  30

      Leu Pro Leu Val Ser Arg Pro Ser Ser Ile Arg Trp Glu Arg Arg Pro
                      35                  40                  45

      Gln Xaa Met Cys Leu Ser Asp His Gly Ala Ser Cys Pro Ala Leu Gly
          50                  55                  60

      Lys Thr Glu Thr Lys Ser Ser Gln Leu Ala Leu Gly Glu Gly Leu Phe
      65                  70                  75                  80

      Pro Leu Pro Leu Ala His Phe Gln Glu Phe Asp Ser Glu Ser Arg Ala
                      85                  90                  95

      Ala Val Pro Gly Arg Val Cys Thr His Ile Cys Val Gly Arg Lys Lys
                      100                 105                 110
```

Arg Thr

<210> 1176
<211> 188
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (182)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1176
Gln Arg Leu Glu Ser Gly Asp Cys Ile Gly Val Leu Asp Cys Glu Trp
 1   5   10   15

Cys Met Val Asp Ser Asp Gly Lys Thr His Leu Asp Lys Pro Tyr Cys
                20   25   30

Ala Pro Gln Lys Glu Cys Phe Gly Gly Ile Val Gly Ala Lys Ser Pro
            35   40   45

Tyr Val Asp Asp Met Gly Ala Ile Gly Asp Glu Val Ile Thr Leu Asn
        50   55   60

Met Ile Lys Ser Ala Pro Val Gly Pro Val Ala Gly Gly Ile Met Gly
 65   70   75   80

Cys Ile Met Val Leu Val Leu Ala Val Tyr Ala Tyr Arg His Gln Ile
                85   90   95

His Arg Arg Ser His Gln His Met Ser Pro Leu Ala Ala Gln Glu Met
            100   105   110

Ser Val Arg Met Ser Asn Leu Glu Asn Asp Arg Asp Glu Arg Asp Asp
            115   120   125

Asp Ser His Glu Asp Arg Gly Ile Ile Ser Asn Thr Arg Phe Ile Ala
        130   135   140

Ala Val Ile Glu Arg His Ala His Ser Pro Glu Arg Arg Arg Arg Tyr
145   150   155   160

Trp Gly Arg Ser Gly Thr Glu Ser Asp His Gly Tyr Ser Thr Met Ser
                165   170   175

Pro Gln Glu Asp Ser Xaa Lys Ser Ser Met Gln Gln
            180   185

<210> 1177
<211> 95
<212> PRT
<213> Homo sapiens

<400> 1177
His Ile Ala Lys Val Ser Cys Thr Leu Leu Gln Gly Asn Val Ser Phe
 1   5   10   15

Met Ala Leu Lys His Leu Gly Lys Lys Lys Met Phe Lys Arg Ile Asn
                20   25   30

Arg Ala Val Val Cys Ile Arg Met Cys Val Ile Cys Val Phe Tyr Lys
        35   40   45

Leu Ser Ile Gly Gly Phe Arg Val Leu Lys Cys Gln His Ile Pro Ser
    50   55   60

Pro Phe Val Ser Gln Ala Asn Met Arg Glu Asn Arg Lys Val Leu Ala
65   70   75   80

Val Gly Ile Gly Ser Ser Gly Gly Gln Met Ser Leu Pro Asp Pro
                85   90   95

<210> 1178
<211> 197
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1178
Asn Ser Leu Thr Leu Ala Leu Pro Arg Xaa Thr Thr Ser His Asn Ser
 1   5   10   15

Leu Thr Thr Pro Cys Tyr Thr Pro Tyr Tyr Val Ala Pro Glu Val Leu
                20   25   30

Gly Pro Glu Lys Tyr Asp Lys Ser Cys Asp Met Trp Ser Leu Gly Val
        35   40   45

Ile Met Tyr Ile Leu Leu Cys Gly Tyr Pro Pro Phe Tyr Ser Asn His
    50   55   60

```
Gly Leu Ala Ile Ser Pro Gly Met Lys Thr Arg Ile Arg Met Gly Gln
 65              70              75              80

Tyr Glu Phe Pro Asn Pro Glu Trp Ser Glu Val Ser Glu Glu Val Lys
             85              90              95

Met Leu Ile Arg Asn Leu Leu Lys Thr Glu Pro Thr Gln Arg Met Thr
            100             105             110

Ile Thr Glu Phe Met Asn His Pro Trp Ile Met Gln Ser Thr Lys Val
        115             120             125

Pro Gln Thr Pro Leu His Thr Ser Arg Val Leu Lys Glu Asp Lys Glu
    130             135             140

Arg Trp Glu Asp Val Lys Glu Glu Met Thr Ser Ala Leu Ala Thr Met
145             150             155             160

Arg Val Asp Tyr Glu Gln Ile Lys Ile Lys Lys Ile Glu Asp Ala Ser
            165             170             175

Asn Pro Leu Leu Leu Lys Arg Arg Lys Lys Ala Arg Ala Leu Glu Ala
        180             185             190

Ala Ala Leu Ala His
        195
```

```
<210> 1179
<211> 249
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (224)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (226)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1179
His Glu Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Lys Glu Cys
 1               5                  10                  15

Arg Lys Thr Phe Ser Gln Met Thr His Leu Thr Gln His Gln Thr Thr
                20                  25                  30

His Thr Arg Glu Lys Phe His Glu Cys Ser Glu Cys Gly Lys Ala Phe
            35                  40                  45

Ser Arg Val Ser Ala Leu Ile Asp His Gln Arg Ile His Ser Gly Glu
        50                  55                  60

Xaa Pro Tyr Glu Cys Lys Xaa Cys Gly Arg Ala Phe Thr Gln Ser Ala
 65                  70                  75                  80

Gln Leu Ile Xaa His Gln Lys Thr His Ser Gly Glu Lys Pro Tyr Glu
                85                  90                  95

Cys Ser Lys Cys Lys Lys Ser Phe Val His Leu Ser Xaa Leu Ile Glu
            100                 105                 110

His Trp Arg Ile His Thr Gly Glu Lys Pro Tyr Gln Cys Lys Asp Cys
            115                 120                 125

Lys Lys Thr Phe Cys Arg Val Met Gln Phe Thr Leu His Arg Arg Ile
        130                 135                 140

His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys Ser Phe
145                 150                 155                 160

Ser Ala His Ser Ser Leu Val Thr His Lys Arg Thr His Ser Gly Glu
            165                 170                 175

Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe Ser Ala His Ser
            180                 185                 190
```

```
Ser Leu Val Thr His Lys Arg Thr His Ser Gly Glu Lys Pro Tyr Thr
        195             200             205

Cys His Ala Cys Gly Lys Ala Phe Asn Thr Ser Ser Thr Leu Cys Xaa
        210             215             220

His Xaa Arg Ile His Thr Gly Glu Lys Pro Phe Gln Cys Ser Gln Cys
225             230             235             240

Gly Lys Ser Leu Val Phe Ser Cys Arg
                245
```

<210> 1180
<211> 377
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (324)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (360)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (362)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1180
```
Glu Asp Arg Glu Ala Glu Pro Gln Ile Ala Ala Xaa Asn Leu Lys Phe
  1             5             10              15

Gln Gly Ala Ser Asn Leu Thr Leu Ser Glu Thr Gln Asn Gly Asp Val
            20              25              30

Ser Glu Glu Thr Met Gly Ser Arg Lys Val Lys Lys Ser Lys Gln Lys
        35              40              45

Pro Met Asn Val Gly Leu Ser Glu Thr Gln Asn Gly Gly Met Ser Gln
    50              55              60
```

Glu Ala Val Gly Asn Ile Lys Val Thr Lys Ser Pro Gln Lys Ser Thr
65   70   75   80

Val Leu Ser Asn Gly Glu Ala Ala Met Gln Ser Ser Asn Ser Glu Ser
            85   90   95

Lys Lys Lys Lys Lys Lys Lys Arg Lys Met Val Asn Asp Ala Glu Pro
            100   105   110

Asp Thr Lys Lys Ala Lys Thr Glu Asn Lys Gly Lys Ser Glu Glu Glu
            115   120   125

Ser Ala Glu Thr Thr Lys Glu Thr Glu Asn Asn Val Glu Lys Pro Asp
    130   135   140

Asn Asp Glu Asp Glu Ser Glu Val Pro Ser Leu Pro Leu Gly Leu Thr
145   150   155   160

Gly Ala Phe Glu Asp Thr Ser Phe Ala Ser Leu Cys Asn Leu Val Asn
            165   170   175

Glu Asn Thr Leu Lys Ala Ile Lys Glu Met Gly Phe Thr Asn Met Thr
            180   185   190

Glu Ile Gln His Lys Ser Ile Arg Pro Leu Leu Glu Gly Arg Asp Leu
            195   200   205

Leu Ala Ala Ala Lys Thr Gly Ser Gly Lys Thr Leu Ala Phe Leu Ile
    210   215   220

Pro Ala Val Glu Leu Ile Val Lys Leu Arg Phe Met Pro Arg Asn Gly
225   230   235   240

Thr Gly Val Leu Ile Leu Ser Pro Thr Arg Glu Leu Ala Met Gln Thr
            245   250   255

Phe Gly Val Leu Lys Glu Leu Met Thr His His Val His Thr Tyr Gly
            260   265   270

Leu Ile Met Gly Gly Ser Asn Arg Ser Ala Glu Ala Gln Lys Leu Gly
            275   280   285

Asn Gly Ile Asn Ile Ile Val Ala Thr Pro Gly Arg Leu Leu Asp His
    290   295   300

Met Gln Asn Thr Pro Gly Phe Met Tyr Lys Asn Leu Gln Cys Leu Val
305   310   315   320

Ile Asp Glu Xaa Asp Arg Ile Leu Asp Val Gly Phe Glu Glu Glu Leu
            325   330   335

```
Lys Gln Ile Ile Lys Leu Leu Pro Thr Arg Arg Gln Thr Met Leu Phe
            340               345               350

Ser Ala Thr Gln Thr Arg Lys Xaa Glu Xaa Leu Ala Arg Ile Ser Leu
            355               360               365

Lys Lys Glu Pro Leu Val Cys Trp Arg
    370               375
```

<210> 1181
<211> 422
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (248)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1181
Ser His Leu Leu Gln Thr Thr Tyr Pro Lys Gln Arg Met Pro Asp Arg
 1   5   10   15

Arg His Ser Lys Ser Ala Gln Ile Ile Xaa Xaa Pro Val Pro Tyr Gln
                20   25   30

Xaa Xaa Ser His Thr Ser Tyr Leu Tyr Thr Gln Tyr Ala Pro Val Pro
            35   40   45

Phe Gly Ile Pro Xaa Pro Met Pro Xaa Pro Met Leu Ile Pro Ser Ser
        50   55   60

Met Asp Ser Glu Asp Lys Val Thr Glu Ser Ile Glu Asp Ile Lys Glu
65   70   75   80

Lys Leu Pro Thr His Pro Phe Glu Ala Asp Leu Leu Glu Met Ala Glu
                85   90   95

Met Ile Ala Glu Asp Glu Glu Lys Lys Thr Leu Ser Gln Gly Glu Ser
            100   105   110

Gln Thr Ser Glu His Glu Leu Phe Leu Asp Thr Lys Ile Phe Glu Lys
            115   120   125

Xaa Gln Gly Ser Thr Tyr Ser Gly Asp Leu Glu Ser Glu Ala Val Ser
    130   135   140

Thr Pro His Ser Trp Glu Glu Glu Leu Asn His Tyr Ala Leu Lys Ser
145   150   155   160

Asn Ala Val Gln Glu Ala Asp Ser Glu Leu Lys Gln Phe Ser Lys Gly
                165   170   175

Glu Thr Glu Arg Thr Trp Lys Gln Ile Phe His Gln Thr Pro Leu Thr
                180   185   190

His Leu Ile Lys Asp Gly Asn Pro Gly Thr Phe Pro Asn Arg Arg Arg
            195   200   205

His Arg Asp Gly Phe Pro Gln Pro Arg Arg Arg Gly Arg Lys Lys Ser
    210   215   220

Ile Val Ala Val Glu Pro Arg Ser Leu Ile Gln Gly Ala Phe Gln Gly
225   230   235   240

```
Cys Ser Val Ser Gly Met Thr Xaa Lys Tyr Met Tyr Gly Val Asn Ala
            245             250             255

Trp Lys Asn Trp Val Gln Trp Lys Asn Ala Lys Glu Glu Gln Gly Asp
            260             265             270

Leu Lys Cys Gly Gly Val Glu Gln Ala Ser Ser Ser Pro Arg Ser Asp
            275             280             285

Pro Leu Gly Ser Thr Gln Asp His Ala Leu Ser Gln Glu Ser Ser Glu
        290             295             300

Pro Gly Cys Arg Val Arg Ser Ile Lys Leu Lys Glu Asp Ile Leu Ser
305             310             315             320

Cys Thr Phe Ala Glu Leu Ser Leu Gly Leu Cys Gln Phe Ile Gln Glu
            325             330             335

Val Arg Arg Pro Asn Gly Glu Lys Tyr Asp Pro Asp Ser Ile Leu Tyr
            340             345             350

Leu Cys Leu Gly Ile Gln Gln Tyr Leu Phe Glu Asn Gly Arg Ile Asp
            355             360             365

Asn Ile Phe Thr Glu Pro Tyr Ser Arg Phe Met Ile Glu Leu Thr Lys
    370             375             380

Leu Leu Lys Ile Trp Glu Pro Thr Ile Leu Pro Asn Gly Tyr Met Phe
385             390             395             400

Ser Arg Ile Glu Glu Glu His Leu Trp Glu Cys Lys Gln Leu Gly Ala
            405             410             415

Tyr Ser Pro Ile Ala Phe
            420
```

```
<210> 1182
<211> 26
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1182
Lys Thr Gly Ala Cys Pro Glu Asp Xaa Lys Tyr Cys Pro Gln Ser Ser
 1   5   10   15

Arg Tyr Lys Thr Gly Leu Glu Pro Xaa Gly
            20   25

<210> 1183
<211> 17
<212> PRT
<213> Homo sapiens

<400> 1183
Gly Gln Glu Ile Glu Thr Val Leu Ala Asn Met Val Lys Pro Arg Leu
 1   5   10   15

Tyr

<210> 1184
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1184
Cys Asp Ser Trp Asn Ala Val Met Ser Thr Leu Cys Pro Pro Pro Ser
 1   5   10   15

Pro Ala Val Ala Lys Thr Glu Ile Ala Leu Ser Gly Lys Ser Pro Leu
            20   25   30

Leu Ala Ala Thr Phe Ala Tyr Trp Asp Asn Ile Leu Gly Pro Arg Val
            35   40   45

Arg His Ile Trp Ala Pro Lys Thr Glu Gln Val Leu Leu Ser Asp Gly
      50   55   60

Glu Ile Thr Phe Leu Ala Asn His Thr Leu Asn Gly Glu Ile Leu Arg
 65   70   75   80

```
Asn Ala Glu Ser Gly Ala Ile Asp Val Lys Phe Phe Val Leu Ser Glu
            85              90                  95

Lys Gly Val Ile Ile Val Ser Leu Ile Phe Asp Gly Asn Trp Asn Gly
            100             105             110

Asp Arg Ser Thr Tyr Gly Leu Ser Ile Ile Leu Pro Gln Thr Glu Leu
        115             120             125

Ser Phe Tyr Leu Pro Leu His Arg Val Cys Val Asp Arg Leu Thr His
    130             135             140

Ile Ile Arg Lys Gly Arg Ile Trp Met His Lys Glu Arg Xaa Glu Met
145             150             155             160

Ser Arg Arg Leu Ser
            165
```

```
<210> 1185
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1185
Gly Thr Ala Phe Thr Arg Gln Cys Ser Gln Gly Pro Trp Tyr Arg Ala
  1           5               10                  15

Arg Ser Arg Val Pro Gln Val Val Arg Leu Pro Gly Pro His Leu Glu
            20              25              30

Pro Ser Leu Cys Ser Phe Glu Ser Arg Cys Cys Pro Thr Pro Ile Pro
        35              40              45
```

```
Asn Gln Pro Pro Pro Pro Ala Ser Leu Pro Ser Val Pro Phe Ile Leu
    50              55              60

Pro Gly Val Pro Ser Ala Cys His Gly Thr Ala Cys Tyr Leu Xaa Gln
65              70              75              80

Leu Gln Met Pro Ala Leu Asn Leu Pro Trp Xaa Pro Phe Leu Tyr Xaa
            85              90              95

Val Asn Ser Leu Asn Ser Ala Leu Pro Leu Pro Ala Leu Lys
            100             105             110


<210> 1186
<211> 352
<212> PRT
<213> Homo sapiens

<400> 1186
Cys Arg Ser Pro Glu Ala Ser Val Leu Phe Pro Glu Val Ser Gly Leu
    1           5               10              15

Gly Gln Pro Pro Ser Ser Ser Leu Arg Met Ala Ser Ser Ser Gly Ser
            20              25              30

Lys Ala Glu Phe Ile Val Gly Gly Lys Tyr Lys Leu Val Arg Lys Ile
        35              40              45

Gly Ser Gly Ser Phe Gly Asp Ile Tyr Leu Ala Ile Asn Ile Thr Asn
    50              55              60

Gly Glu Glu Val Ala Val Lys Leu Glu Ser Gln Lys Ala Arg His Pro
65              70              75              80

Gln Leu Leu Tyr Glu Ser Lys Leu Tyr Lys Ile Leu Gln Gly Gly Val
            85              90              95

Gly Ile Pro His Ile Arg Trp Tyr Gly Gln Glu Lys Asp Tyr Asn Val
            100             105             110

Leu Val Met Asp Leu Leu Gly Pro Ser Leu Glu Asp Leu Phe Asn Phe
            115             120             125

Cys Ser Arg Arg Phe Thr Met Lys Thr Val Leu Met Leu Ala Asp Gln
    130             135             140

Met Ile Ser Arg Ile Glu Tyr Val His Thr Lys Asn Phe Ile His Arg
145             150             155             160

Asp Ile Lys Pro Asp Asn Phe Leu Met Gly Ile Gly Arg His Cys Asn
```

```
                   165                    170                    175
     Lys Leu Phe Leu Ile Asp Phe Gly Leu Ala Lys Lys Tyr Arg Asp Asn
                 180                185                190

     Arg Thr Arg Gln His Ile Pro Tyr Arg Glu Asp Lys Asn Leu Thr Gly
                 195                200                205

     Thr Ala Arg Tyr Ala Ser Ile Asn Ala His Leu Gly Ile Glu Gln Ser
         210                215                220

     Arg Arg Asp Asp Met Glu Ser Leu Gly Tyr Val Leu Met Tyr Phe Asn
     225                230                235                240

     Arg Thr Ser Leu Pro Trp Gln Gly Leu Lys Ala Ala Thr Lys Lys Gln
                 245                250                255

     Lys Tyr Glu Lys Ile Ser Glu Lys Lys Met Ser Thr Pro Val Glu Val
                 260                265                270

     Leu Cys Lys Gly Phe Pro Ala Glu Phe Ala Met Tyr Leu Asn Tyr Cys
                 275                280                285

     Arg Gly Leu Arg Phe Glu Glu Ala Pro Asp Tyr Met Tyr Leu Arg Gln
         290                295                300

     Leu Phe Arg Ile Leu Phe Arg Thr Leu Asn His Gln Tyr Asp Tyr Thr
     305                310                315                320

     Phe Asp Trp Asp Asn Val Lys Ala Glu Ser Ser Thr Ala Gly Ser Leu
                 325                330                335

     Phe Gln Trp Ala Gly Ser Ala Gly Pro Asn Pro His Arg Gln Ala Asn
                 340                345                350
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<210> 1187
<211> 482
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (259)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (450)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (459)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (475)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1187
Ala Gly Leu Val Ala Ala Gly Ala Val Arg Xaa Leu Tyr Pro Ala Ser
 1               5                  10                  15

Arg Ala Gly Glu Arg Thr Arg Val Pro Gly Ser Pro Ala Pro Xaa Ser
            20                  25                  30

Leu Pro Leu His Ser Pro Gly Ala Cys Gly Thr Glu Val Asp Met Asp
            35                  40                  45

Pro Gln Arg Ser Pro Leu Leu Glu Val Lys Gly Asn Ile Glu Leu Lys
        50                  55                  60

Arg Pro Leu Ile Lys Ala Pro Ser Gln Leu Pro Leu Ser Gly Ser Arg
 65                 70                  75                  80

Leu Lys Arg Arg Pro Asp Gln Met Glu Asp Gly Leu Glu Pro Glu Lys
                85                  90                  95

Lys Arg Thr Arg Gly Leu Gly Ala Xaa Thr Lys Ile Thr Thr Ser His
            100                 105                 110
```

```
Pro Arg Val Pro Ser Leu Thr Thr Val Pro Gln Thr Gln Gly Gln Thr
        115             120             125

Thr Ala Gln Lys Val Ser Lys Lys Thr Gly Pro Arg Cys Ser Thr Ala
        130             135             140

Ile Ala Thr Gly Leu Lys Asn Gln Lys Pro Val Pro Ala Val Pro Val
145             150             155             160

Gln Lys Ser Gly Thr Ser Gly Val Pro Pro Met Ala Gly Gly Lys Lys
                165             170             175

Pro Ser Lys Arg Pro Ala Trp Asp Leu Lys Gly Gln Leu Cys Asp Leu
            180             185             190

Asn Ala Glu Leu Lys Arg Cys Arg Glu Arg Thr Gln Thr Leu Asp Gln
            195             200             205

Glu Asn Gln Gln Leu Gln Asp Gln Leu Arg Asp Ala Gln Gln Gln Val
        210             215             220

Lys Ala Leu Gly Thr Glu Arg Thr Thr Leu Glu Gly His Leu Ala Lys
225             230             235             240

Val Gln Ala Gln Ala Glu Gln Gly Gln Gln Glu Leu Lys Asn Leu Arg
            245             250             255

Ala Cys Xaa Leu Glu Leu Glu Glu Arg Leu Ser Thr Gln Glu Gly Leu
            260             265             270

Val Gln Glu Leu Gln Lys Lys Gln Val Glu Leu Gln Glu Glu Arg Arg
        275             280             285

Gly Leu Met Ser Gln Leu Glu Glu Lys Glu Arg Arg Leu Gln Thr Ser
    290             295             300

Glu Ala Ala Leu Ser Ser Ser Gln Ala Glu Val Ala Ser Leu Arg Gln
305             310             315             320

Glu Thr Val Ala Gln Ala Ala Leu Leu Thr Glu Arg Glu Glu Arg Leu
            325             330             335

His Gly Leu Glu Met Glu Arg Arg Arg Leu His Asn Gln Leu Gln Glu
            340             345             350

Leu Lys Gly Asn Ile Arg Val Phe Cys Arg Val Arg Pro Val Leu Pro
        355             360             365

Gly Glu Pro Thr Pro Pro Pro Gly Leu Leu Leu Phe Pro Ser Gly Pro
    370             375             380
```

```
Gly Gly Pro Ser Asp Pro Pro Thr Arg Leu Ser Leu Ser Arg Ser Asp
385             390             395             400

Glu Arg Arg Gly Thr Leu Ser Gly Ala Pro Ala Pro Pro Thr Arg His
                405             410             415

Asp Phe Ser Phe Asp Arg Val Phe Pro Pro Gly Ser Gly Gln Asp Glu
                420             425             430

Val Phe Glu Glu Ile Ala Met Leu Val Gln Ser Ala Leu Asp Gly Tyr
        435             440             445

Pro Xaa Cys Ile Phe Ala Tyr Gly Gln Thr Xaa Ser Gly Lys Thr Phe
    450             455             460

Thr Met Glu Gly Gly Leu Gly Glu Thr Pro Xaa Gly Arg Ala Asp Pro
465             470             475             480

Ser Gly
```

<210> 1188
<211> 345
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1188

```
Thr Ala Ser Leu Ser Asn Ala Val Lys Ile Leu Leu Arg Trp Val Thr
 1               5               10              15

Arg Tyr Ser Cys Pro Arg Ala Phe Val Thr Gly Met Pro Lys Arg Gly
                20°             25              30

Lys Lys Gly Ala Val Ala Glu Asp Gly Asp Glu Leu Arg Thr Glu Pro
        35              40              45

Glu Ala Lys Lys Ser Lys Thr Ala Ala Lys Lys Asn Asp Lys Glu Ala
    50              55              60

Ala Gly Glu Gly Pro Ala Leu Tyr Glu Asp Pro Pro Asp Gln Lys Thr
65              70              75              80

Ser Pro Ser Gly Lys Pro Ala Thr Leu Lys Ile Cys Ser Trp Asn Val
                85              90              95
```

```
Asp Gly Leu Arg Ala Trp Ile Lys Lys Lys Gly Leu Asp Trp Val Lys
        100             105             110

Glu Glu Ala Pro Asp Ile Leu Cys Leu Gln Glu Thr Lys Cys Ser Glu
        115             120             125

Asn Lys Leu Pro Ala Glu Leu Gln Glu Leu Pro Gly Leu Ser His Gln
        130             135             140

Tyr Trp Ser Ala Pro Ser Asp Lys Glu Gly Tyr Ser Gly Val Gly Leu
145             150             155             160

Leu Ser Arg Gln Cys Pro Leu Lys Val Ser Tyr Gly Ile Gly Xaa Glu
            165             170             175

Glu His Asp Gln Glu Gly Arg Val Ile Val Ala Glu Phe Asp Ser Phe
            180             185             190

Val Leu Val Thr Ala Tyr Val Pro Asn Ala Gly Arg Gly Leu Val Arg
            195             200             205

Leu Glu Tyr Arg Gln Arg Trp Asp Glu Ala Phe Arg Lys Phe Leu Lys
    210             215             220

Gly Leu Ala Ser Arg Lys Pro Leu Val Leu Cys Gly Asp Leu Asn Val
225             230             235             240

Ala His Glu Glu Ile Asp Leu Arg Asn Pro Lys Gly Asn Lys Lys Asn
            245             250             255

Ala Gly Phe Thr Pro Gln Glu Arg Gln Gly Phe Gly Glu Leu Leu Gln
            260             265             270

Ala Val Pro Leu Ala Asp Ser Phe Arg His Leu Tyr Pro Asn Thr Pro
            275             280             285

Tyr Ala Tyr Thr Phe Trp Thr Tyr Met Met Asn Ala Arg Ser Lys Asn
    290             295             300

Val Gly Trp Arg Leu Asp Tyr Phe Leu Leu Ser His Ser Leu Leu Pro
305             310             315             320

Ala Leu Cys Asp Ser Lys Ile Arg Ser Lys Ala Leu Gly Ser Asp His
            325             330             335

Cys Pro Ile Thr Leu Tyr Leu Ala Leu
            340             345
```

```
<210> 1189
<211> 136
<212> PRT
<213> Homo sapiens

<400> 1189
Asp Ile Ser Thr Pro Ser Leu Thr Thr Asp His Ala Pro Leu Thr Ile
1               5               10              15

Ser Leu Lys Pro Asn His Pro Tyr Arg Thr Gln Cys Gln Tyr Pro Ile
            20              25              30

Pro Gln His Ala Leu Lys Arg Leu Lys Pro Val Ile Ile Arg Leu Leu
        35              40              45

Gln His Gly Leu Leu Asn Pro Ile Asn Ser Pro Tyr Asn Ser Pro Ile
    50              55              60

Phe Pro Val Leu Lys Arg Asp Lys Pro Tyr Lys Leu Val Gln Asp Leu
65              70              75              80

Arg Leu Ile Asn Gln Ile Val Leu Pro Ile His Pro Val Val Pro Asn
                85              90              95

Pro Tyr Thr Leu Leu Ser Ser Ile Pro Pro Ser Thr Thr His Tyr Ser
            100             105             110

Val Leu Asp Leu Arg His Ala Phe Phe Thr Ile Ala Leu His Pro Ser
            115             120             125

Ser Gln Pro Leu Phe Ala Phe Thr
    130             135


<210> 1190
<211> 128
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
```

```
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1190
Leu Xaa Gln Lys Thr Gln Pro Thr His Glu Lys Xaa Ala Xaa Ser Phe
 1               5                   10                  15


Leu Gly Met Val Cys Ile Trp Val Xaa Ser Ile Gln Thr Ser Ile Asn
            20                  25                  30


Thr Ser Phe Ile Leu Gly Leu Pro Asn Ser Phe Pro Gln Asp Leu Lys
        35                  40                  45


Thr Ile Thr Met Ile Lys Val Ser Phe Ala Pro Cys Gln Arg Leu Gly
    50                  55                  60


Pro Leu Pro Phe Pro Ser Arg Gln Tyr Ser Val Gln Leu Gly Leu Val
65                  70                  75                  80


Pro Ser Leu Ser Val Arg Thr Glu Phe His Pro Arg Phe Ser Thr Gln
            85                  90                  95


Ala Leu Cys Ser Gly Lys Val Lys Pro Ser Leu Lys Gly Ser Lys Ser
            100                 105                 110


Ser Ala Ile Asp Arg Ala Ala Gly Gly Lys Arg Ser Arg Cys Ile Arg
            115                 120                 125
```

```
<210> 1191
<211> 236
<212> PRT
<213> Homo sapiens

<400> 1191
Arg Ala Gly Ser Val Lys Arg Arg Gln Arg Gly Lys Met Ala Ala Ala
 1               5                   10                  15


Val Pro Gln Arg Ala Trp Thr Val Glu Gln Leu Arg Ser Glu Gln Leu
            20                  25                  30
```

```
Pro Lys Lys Asp Ile Ile Lys Phe Leu Gln Glu His Gly Ser Asp Ser
        35              40                  45

Phe Leu Ala Glu His Lys Leu Leu Gly Asn Ile Lys Asn Val Ala Lys
    50              55                  60

Thr Ala Asn Lys Asp His Leu Val Thr Ala Tyr Asn His Leu Phe Glu
65              70                  75                      80

Thr Lys Arg Phe Lys Gly Thr Glu Ser Ile Ser Lys Val Ser Glu Gln
            85                  90                      95

Val Lys Asn Val Lys Leu Asn Glu Asp Lys Pro Lys Glu Thr Lys Ser
            100                 105                 110

Glu Glu Thr Leu Asp Glu Gly Pro Pro Lys Tyr Thr Lys Ser Val Leu
        115                 120                 125

Lys Lys Gly Asp Lys Thr Asn Phe Pro Lys Lys Gly Asp Val Val His
        130                 135                 140

Cys Trp Tyr Thr Gly Thr Leu Gln Asp Gly Thr Val Phe Asp Thr Asn
145                 150                 155                 160

Ile Gln Thr Ser Ala Lys Lys Lys Asn Ala Lys Pro Leu Ser Phe
                165                 170                 175

Lys Val Gly Val Gly Lys Val Ile Arg Gly Trp Asp Glu Ala Leu Leu
            180                 185                 190

Thr Met Ser Lys Gly Glu Lys Ala Arg Leu Glu Ile Glu Pro Glu Trp
        195                 200                 205

Ala Tyr Gly Lys Lys Gly Gln Pro Asp Ala Lys Ile Pro Pro Asn Ala
    210                 215                 220

Lys Leu Thr Phe Glu Val Glu Leu Val Asp Ile Asp
225                 230                 235
```

```
<210> 1192
<211> 204
<212> PRT
<213> Homo sapiens

<400> 1192
Pro Ala Met Glu Ala Glu Ala Gly Gly Leu Glu Glu Leu Thr Asp Glu
    1               5                   10                  15

Glu Met Ala Ala Leu Gly Lys Glu Glu Leu Val Arg Arg Leu Arg Arg
```

```
                 20                    25                    30
Glu Glu Ala Ala Arg Leu Ala Ala Leu Val Gln Arg Gly Arg Leu Met
         35                    40                    45

Gln Glu Val Asn Arg Gln Leu Gln Gly His Leu Gly Glu Ile Arg Glu
     50                    55                    60

Leu Lys Gln Leu Asn Arg Arg Leu Gln Ala Glu Asn Arg Glu Leu Arg
 65                    70                    75                    80

Asp Leu Cys Cys Phe Leu Asp Ser Glu Arg Gln Arg Gly Arg Arg Ala
             85                    90                    95

Ala Arg Gln Trp Gln Leu Phe Gly Thr Gln Ala Ser Arg Ala Val Arg
             100                   105                   110

Glu Asp Leu Gly Gly Cys Trp Gln Lys Leu Ala Glu Leu Glu Gly Arg
         115                   120                   125

Gln Glu Glu Leu Leu Arg Glu Asn Leu Ala Leu Lys Glu Leu Cys Leu
     130                   135                   140

Ala Leu Gly Glu Glu Trp Gly Pro Arg Gly Gly Pro Ser Gly Ala Gly
145                   150                   155                   160

Gly Ser Gly Ala Gly Pro Ala Pro Glu Leu Ala Leu Pro Pro Cys Gly
             165                   170                   175

Pro Arg Asp Leu Gly Asp Gly Ser Ser Ser Thr Gly Ser Val Gly Ser
         180                   185                   190

Pro Asp Gln Leu Pro Leu Ala Cys Ser Pro Asp Asp
         195                   200
```

<210> 1193
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1193

```
Ser Gln Gln Thr Glu Leu Ile Thr Val Ile Leu Gly Val Phe Phe Cys
1               5               10                  15

Arg Val Lys His Val Asn Ile Leu His Arg His Lys Tyr Lys His Asp
            20              25              30

Lys His Trp Thr Trp Lys Met Gly Ser Lys Phe Cys Thr Cys Ala Phe
        35              40              45

Leu Tyr Phe Cys Cys Ile Phe Xaa Ser Cys Xaa Phe Ala Lys Tyr Ile
    50              55              60

Ile Asn
65
```

<210> 1194
<211> 305
<212> PRT
<213> Homo sapiens

<400> 1194

```
Thr Cys Ala Gly Pro Arg Gly Ala Ala Cys Gly Arg Leu Arg Leu Pro
1               5               10                  15

Ala Ala Gly Ala Leu Leu Pro Ala Ala Gln Arg Arg Val His Arg Tyr
            20              25              30

Glu Glu Ser Glu Val Ile Ser Leu Pro Phe Leu Asp Gln Leu Val Ser
        35              40              45

Thr Leu Val Gly Leu Leu Ser Pro His Asn Pro Ala Leu Ala Ala Ala
    50              55              60

Ala Leu Asp Tyr Arg Cys Pro Val His Phe Tyr Trp Val Arg Gly Glu
65              70              75              80

Glu Ile Ile Pro Arg Gly His Arg Arg Gly Arg Ile Asp Asp Leu Arg
                85              90              95

Tyr Gln Ile Asp Asp Lys Pro Asn Asn Gln Ile Arg Ile Ser Lys Gln
            100             105             110

Leu Ala Glu Phe Val Pro Leu Asp Tyr Ser Val Pro Ile Glu Ile Pro
        115             120             125

Thr Ile Lys Cys Lys Pro Asp Lys Leu Pro Leu Phe Lys Arg Gln Tyr
    130             135             140
```

```
Glu Asn His Ile Phe Val Gly Ser Lys Thr Ala Asp Pro Cys Cys Tyr
145             150         155             160

Gly His Thr Gln Phe His Leu Leu Pro Asp Lys Leu Arg Arg Glu Arg
            165             170             175

Leu Leu Arg Gln Asn Cys Ala Asp Gln Ile Glu Val Val Phe Arg Ala
            180             185             190

Asn Ala Ile Ala Ser Leu Phe Ala Trp Thr Gly Ala Gln Ala Met Tyr
            195             200             205

Gln Gly Phe Trp Ser Glu Ala Asp Val Thr Arg Pro Phe Val Ser Gln
    210             215             220

Ala Val Ile Thr Asp Gly Lys Tyr Phe Ser Phe Phe Cys Tyr Gln Leu
225             230             235             240

Asn Thr Leu Ala Leu Thr Thr Gln Ala Asp Gln Asn Asn Pro Arg Lys
            245             250             255

Asn Ile Cys Trp Gly Thr Gln Ser Lys Pro Leu Tyr Glu Thr Ile Glu
            260             265             270

Asp Asn Asp Val Lys Gly Phe Asn Asp Asp Val Leu Leu Gln Ile Val
            275             280             285

His Phe Leu Leu Asn Arg Pro Lys Glu Glu Lys Ser Gln Leu Leu Glu
    290             295             300

Asn
305
```

```
<210> 1195
<211> 102
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1195

Gly Arg Ala Ala Pro Gln Leu Gln Asp Leu Ala Ser Ser Cys Pro Gln
 1   5   10   15

Glu Glu Val Ser Gln Gln Gln Glu Ser Val Ser Xaa Leu Pro Ala Ser
                20   25   30

Val His Pro Gln Leu Xaa His Gly Arg Ala Trp Arg Pro Ser Thr Cys
            35   40   45

Ser Thr Asp Ser Arg Ser Pro Ala Phe Cys Gln Arg Pro Arg Thr Pro
        50   55   60

Val Ser Ile Cys Cys Arg Ile Lys Arg Leu Phe Leu Gln Lys Gln Ser
65   70   75   80

Gln Leu Gln Ala Tyr Phe Asn Gln Met Gln Ile Ala Glu Ser Ser Tyr
                85   90   95

Pro Gln Pro Ser Gln Gln
            100

<210> 1196
<211> 123
<212> PRT
<213> Homo sapiens

<400> 1196

Ala Arg Gly Pro Ala Ala Ala Cys Pro Leu Arg Trp Pro Pro Ala Ala
 1   5   10   15

Ala Arg Ala Met Ala Gly Lys Ala His Arg Leu Ser Ala Glu Glu Arg
                20   25   30

Asp Gln Leu Leu Pro Asn Leu Arg Ala Val Gly Trp Asn Glu Leu Glu
            35   40   45

Gly Arg Asp Ala Ile Phe Lys Gln Phe His Phe Lys Asp Phe Asn Arg
        50   55   60

Ala Phe Gly Phe Met Thr Arg Val Ala Leu Gln Ala Glu Lys Leu Asp
65   70   75   80

His His Pro Glu Trp Phe Asn Val Tyr Asn Lys Val His Ile Thr Leu
                85   90   95

Ser Thr His Glu Cys Ala Gly Leu Ser Glu Arg Asp Ile Asn Leu Ala
                100   105   110

```
Ser Phe Ile Glu Gln Val Ala Val Ser Met Thr
        115                 120
```

```
<210> 1197
<211> 247
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1197
Ala Arg Gly Gly Gly Lys Ser Gly Arg Ala Gly Gly Ala Gly Ala Arg
 1               5                   10                  15

Arg Gly Gly Lys Glu Leu Arg Val Ala Ala Glu Xaa Pro Arg Xaa Gln
            20                  25                  30

Arg Arg Pro Thr Gln Pro Ser Arg Arg Arg Arg Ala Pro Met Ala
        35                  40                  45

Ala Ala Lys Asp Thr His Glu Asp His Asp Thr Ser Thr Glu Asn Thr
    50                  55                  60

Asp Glu Ser Asn His Asp Pro Gln Phe Glu Pro Ile Val Ser Leu Pro
65                  70                  75                  80

Glu Gln Glu Ile Lys Thr Leu Glu Glu Asp Glu Glu Glu Leu Phe Lys
                85                  90                  95

Met Arg Ala Lys Leu Phe Arg Phe Ala Ser Glu Asn Asp Leu Pro Glu
            100                 105                 110

Trp Lys Glu Arg Gly Thr Gly Asp Val Lys Leu Leu Lys His Lys Glu
        115                 120                 125

Lys Gly Ala Ile Arg Leu Leu Met Arg Arg Asp Lys Thr Leu Lys Ile
    130                 135                 140

Cys Ala Asn His Tyr Ile Thr Pro Met Met Glu Leu Lys Pro Asn Ala
145                 150                 155                 160
```

```
Gly Ser Asp Arg Ala Trp Val Trp Asn Thr His Ala Asp Phe Ala Asp
                165             170             175

Glu Cys Pro Lys Pro Glu Leu Leu Ala Ile Arg Phe Leu Asn Ala Glu
                180             185             190

Asn Ala Gln Lys Phe Lys Thr Lys Phe Glu Glu Cys Arg Lys Glu Ile
                195             200             205

Glu Glu Arg Glu Lys Lys Ala Gly Ser Gly Lys Asn Asp His Ala Glu
        210             215             220

Lys Val Ala Glu Lys Leu Glu Ala Leu Ser Val Lys Glu Glu Thr Lys
225             230             235             240

Glu Asp Ala Glu Glu Lys Gln
                245
```

<210> 1198
<211> 60
<212> PRT
<213> Homo sapiens

<400> 1198

```
Phe Gly Phe Ser Thr Cys Ile Thr Asn Pro Ala Pro Ile Cys His Ile
 1               5               10              15

Lys Val Cys Asp Leu Lys Phe Ser Gln His Pro His Gln Thr Leu Phe
                20              25              30

Phe Tyr Val Phe Phe Ala Thr Tyr Glu Cys Phe Glu Asn Lys Val Pro
                35              40              45

Met Ser Leu Leu Glu Lys Lys Lys Lys Lys Lys Lys
        50              55              60
```

<210> 1199
<211> 198
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

```
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1199
Ser Asp Lys Trp Pro Thr Ala Val Arg Ala Asn Gly His Leu Leu Leu
 1               5                  10                  15


Asn Ser Glu Lys Met Ser Lys Ser Thr Gly Asn Phe Leu Thr Leu Thr
            20                  25                  30


Gln Ala Ile Asp Lys Phe Ser Ala Asp Gly Met Arg Leu Ala Leu Ala
        35                  40                  45


Asp Ala Gly Asp Thr Val Glu Asp Ala Asn Phe Val Glu Ala Met Ala
    50                  55                  60


Asp Ala Gly Ile Leu Arg Leu Tyr Thr Trp Val Glu Trp Val Lys Glu
65                  70                  75                  80


Met Val Ala Asn Trp Asp Ser Leu Arg Ser Gly Pro Ala Ser Thr Phe
                85                  90                  95


Asn Asp Arg Val Phe Ala Ser Glu Leu Asn Ala Gly Ile Ile Lys Thr
            100                 105                 110


Asp Gln Asn Tyr Glu Lys Met Met Phe Lys Glu Ala Leu Lys Thr Gly
            115                 120                 125


Phe Phe Glu Phe Gln Ala Ala Lys Asp Lys Tyr Arg Glu Leu Ala Val
    130                 135                 140


Glu Gly Met His Arg Glu Leu Val Phe Arg Phe Ile Glu Val Gln Thr
145                 150                 155                 160


Leu Leu Leu Ala Pro Phe Cys Pro His Leu Cys Glu Ala His Leu Gly
                165                 170                 175


His Ser Trp Gly Lys Pro Asp Phe Asn Tyr Gly Met Xaa Ser Trp Ala
                180                 185                 190


Cys Xaa Xaa Gly Pro Val
            195
```

```
<210> 1200
<211> 174
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1200
Leu Tyr Gly Cys Glu Lys Thr Thr Glu Gly Gly Gly Gly Arg Glu Xaa
 1               5                  10                  15

Ala Gly Lys Met Val Val Thr Arg Ser Ala Arg Ala Lys Ala Ser Ile
            20                  25                  30

Gln Ala Ala Ser Ala Glu Ser Ser Gly Gln Lys Ser Phe Ala Ala Asn
        35                  40                  45

Gly Ile Gln Ala His Pro Glu Ser Ser Thr Gly Ser Asp Ala Arg Thr
    50                  55                  60

Thr Ala Glu Ser Gln Thr Thr Gly Lys Gln Ser Leu Ile Pro Arg Thr
65                  70                  75                  80

Pro Lys Ala Arg Lys Arg Lys Ser Arg Thr Thr Gly Ser Leu Pro Lys
                85                  90                  95

Gly Thr Glu Pro Ser Thr Asp Gly Glu Thr Ser Glu Ala Glu Ser Asn
            100                 105                 110

Tyr Ser Val Ser Glu His His Asp Thr Ile Leu Arg Val Thr Arg Arg
            115                 120                 125

Arg Gln Ile Leu Ile Ala Cys Ser Pro Val Ser Ser Val Arg Lys Lys
    130                 135                 140

Pro Lys Val Thr Pro Thr Lys Glu Ser Tyr Thr Glu Glu Ile Val Ser
145                 150                 155                 160

Glu Ala Glu Ser His Val Ser Gly Ile Ser Arg Asn Cys Ala
                165                 170


<210> 1201
<211> 689
<212> PRT
<213> Homo sapiens
```

<400> 1201

Trp Ser Thr Glu Val Glu Pro Ser Gly Ile Ile Phe Lys Asn Ser Lys
1   5   10   15

Thr Gly Lys Val Asp Asn Ile Gln Ala Gly Glu Leu Thr Glu Gly Ile
            20   25   30

Trp Arg Arg Val Ala Leu Gly His Gly Leu Lys Leu Leu Thr Lys Asn
        35   40   45

Gly His Val Tyr Lys Tyr Asp Gly Phe Arg Glu Ser Glu Phe Glu Lys
    50   55   60

Leu Ser Asp Phe Phe Lys Thr His Tyr Arg Leu Glu Leu Met Glu Lys
65   70   75   80

Asp Leu Cys Val Lys Gly Trp Asn Trp Gly Thr Val Lys Phe Gly Gly
            85   90   95

Gln Leu Leu Ser Phe Asp Ile Gly Asp Gln Pro Val Phe Glu Ile Pro
            100   105   110

Leu Ser Asn Val Ser Gln Cys Thr Thr Gly Lys Asn Glu Val Thr Leu
            115   120   125

Glu Phe His Gln Asn Asp Asp Ala Glu Val Ser Leu Met Glu Val Arg
    130   135   140

Phe Tyr Val Pro Pro Thr Gln Glu Asp Gly Val Asp Pro Val Glu Ala
145   150   155   160

Phe Ala Gln Asn Val Leu Ser Lys Ala Asp Val Ile Gln Ala Thr Gly
            165   170   175

Asp Ala Ile Cys Ile Phe Arg Glu Leu Gln Cys Leu Thr Pro Arg Gly
            180   185   190

Arg Tyr Asp Ile Arg Ile Tyr Pro Thr Phe Leu His Leu His Gly Lys
        195   200   205

Thr Phe Asp Tyr Lys Ile Pro Tyr Thr Thr Val Leu Arg Leu Phe Leu
    210   215   220

Leu Pro His Lys Asp Gln Arg Gln Met Phe Phe Val Ile Ser Leu Asp
225   230   235   240

Pro Pro Ile Lys Gln Gly Gln Thr Arg Tyr His Phe Leu Ile Leu Leu
            245   250   255

Phe Ser Lys Asp Glu Asp Ile Ser Leu Thr Leu Asn Met Asn Glu Glu
            260   265   270

```
Glu Val Glu Lys Arg Phe Glu Gly Arg Leu Thr Lys Asn Met Ser Gly
        275             280             285

Ser Leu Tyr Glu Met Val Ser Arg Val Met Lys Ala Leu Val Asn Arg
        290             295             300

Lys Ile Thr Val Pro Gly Asn Phe Gln Gly His Ser Gly Ala Gln Cys
305             310             315             320

Ile Thr Cys Ser Tyr Lys Ala Ser Ser Gly Leu Leu Tyr Pro Leu Glu
                325             330             335

Arg Gly Phe Ile Tyr Val His Lys Pro Pro Val His Ile Arg Phe Asp
            340             345             350

Glu Ile Ser Phe Val Asn Phe Ala Arg Gly Thr Thr Thr Thr Arg Ser
        355             360             365

Phe Asp Phe Glu Ile Glu Thr Lys Gln Gly Thr Gln Tyr Thr Phe Ser
    370             375             380

Ser Ile Glu Arg Glu Glu Tyr Gly Lys Leu Phe Asp Phe Val Asn Ala
385             390             395             400

Lys Lys Leu Asn Ile Lys Asn Arg Gly Leu Lys Glu Gly Met Asn Pro
            405             410             415

Ser Tyr Asp Glu Tyr Ala Asp Ser Asp Glu Asp Gln His Asp Ala Tyr
        420             425             430

Leu Glu Arg Met Lys Glu Glu Gly Lys Ile Arg Glu Glu Asn Ala Asn
        435             440             445

Asp Ser Ser Asp Asp Ser Gly Glu Glu Thr Asp Glu Ser Phe Asn Pro
    450             455             460

Gly Glu Glu Glu Glu Asp Val Ala Glu Glu Phe Asp Ser Asn Ala Ser
465             470             475             480

Ala Ser Ser Ser Ser Asn Glu Gly Asp Ser Asp Arg Asp Glu Lys Lys
                485             490             495

Arg Lys Gln Leu Lys Lys Ala Lys Met Ala Lys Asp Arg Lys Ser Arg
            500             505             510

Lys Lys Pro Val Glu Val Lys Lys Gly Lys Asp Pro Asn Ala Pro Lys
        515             520             525

Arg Pro Met Ser Ala Tyr Met Leu Trp Leu Asn Ala Ser Arg Glu Lys
    530             535             540
```

```
Ile Lys Ser Asp His Pro Gly Ile Ser Ile Thr Asp Leu Ser Lys Lys
545             550             555             560

Ala Gly Glu Ile Trp Lys Gly Met Ser Lys Glu Lys Lys Glu Glu Trp
                565             570             575

Asp Arg Lys Ala Glu Asp Ala Arg Arg Asp Tyr Glu Lys Ala Met Lys
            580             585             590

Glu Tyr Glu Gly Gly Arg Gly Glu Ser Ser Lys Arg Asp Lys Ser Lys
            595             600             605

Lys Lys Lys Lys Val Lys Val Lys Met Glu Lys Lys Ser Thr Pro Ser
        610             615             620

Arg Gly Ser Ser Ser Lys Ser Ser Ser Arg Gln Leu Ser Glu Ser Phe
625             630             635             640

Lys Ser Lys Glu Phe Val Ser Ser Asp Glu Ser Ser Ser Gly Glu Asn
            645             650             655

Lys Ser Lys Lys Lys Arg Arg Arg Ser Glu Asp Ser Glu Glu Glu Glu
            660             665             670

Leu Ala Ser Thr Pro Pro Ser Ser Glu Asp Ser Ala Ser Gly Ser Asp
            675             680             685

Glu
```

```
<210> 1202
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1202
Asn Leu Ser Glu Leu Leu Gln Ala Asp Phe Leu Gly Gln Gly Glu Ile
 1               5               10              15

Met Val Leu Lys Cys Leu Ile Arg Ser His Thr Gln Phe Gln Val His
                20              25              30

Tyr Ser Lys Ser Met Xaa Thr Ala Pro Thr Ala Thr Asn Leu Leu Leu
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            35                  40                    45

 Pro Ser Arg Val Ala Cys Thr Ile Phe Ile Ala Cys Pro Gly Trp Val
         50                  55                  60

 Gly
  65




<210> 1203
<211> 379
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (255)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1203
 Gly Arg Leu Arg Ala Leu Ala Leu Ala Val Ser Ala Pro Gly Leu Thr
  1               5                  10                  15

 Phe Lys Met Val His Ala Glu Ala Phe Ser Arg Pro Leu Ser Arg Asn
              20                  25                  30

 Glu Val Val Gly Leu Ile Phe Arg Leu Thr Ile Phe Gly Ala Val Thr
          35                  40                  45

 Tyr Phe Thr Ile Lys Trp Met Val Asp Ala Ile Asp Pro Thr Arg Lys
      50                  55                  60

 Gln Lys Val Glu Ala Gln Lys Gln Ala Glu Lys Leu Met Lys Gln Ile
  65                  70                  75                  80

 Gly Val Lys Asn Val Lys Leu Ser Glu Tyr Glu Met Ser Ile Ala Ala
                  85                  90                  95

 His Leu Val Asp Pro Leu Asn Met His Val Thr Trp Ser Asp Ile Ala
              100                 105                 110

 Gly Leu Asp Asp Val Ile Thr Asp Leu Lys Asp Thr Val Ile Leu Pro
          115                 120                 125

 Ile Lys Lys Xaa His Leu Phe Glu Asn Ser Arg Leu Leu Gln Pro Pro
```

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              130                    135                  140

Lys Gly Val Leu Leu Tyr Gly Pro Pro Gly Cys Gly Lys Thr Leu Ile
145                    150                155                160

Ala Lys Ala Thr Ala Lys Glu Ala Gly Cys Arg Phe Ile Asn Leu Gln
                  165                170                175

Pro Ser Thr Leu Thr Asp Lys Trp Tyr Gly Glu Ser Gln Lys Leu Ala
                  180                185                190

Ala Ala Val Phe Ser Leu Ala Ile Lys Leu Gln Pro Ser Ile Ile Phe
              195                200                205

Ile Asp Glu Ile Asp Ser Phe Leu Arg Asn Arg Ser Ser Ser Asp His
         210                215                220

Glu Ala Thr Ala Met Met Lys Ala Gln Phe Met Ser Leu Trp Asp Gly
225                230                235                240

Leu Asp Thr Asp His Ser Cys Gln Val Ile Val Met Gly Ala Xaa Asn
                  245                250                255

Arg Pro Gln Asp Leu Asp Ser Ala Ile Met Arg Arg Met Pro Thr Arg
              260                265                270

Phe His Ile Asn Gln Pro Ala Leu Lys Gln Arg Glu Ala Ile Leu Lys
         275                280                285

Leu Ile Leu Lys Asn Glu Asn Val Asp Arg His Val Asp Leu Leu Glu
         290                295                300

Val Ala Gln Glu Thr Asp Gly Phe Ser Gly Ser Asp Leu Lys Glu Met
305                310                315                320

Cys Arg Asp Ala Ala Leu Leu Cys Val Arg Glu Tyr Val Asn Ser Thr
                  325                330                335

Ser Glu Glu Ser His Asp Glu Asp Glu Ile Arg Pro Val Gln Gln Gln
              340                345                350

Asp Leu His Arg Ala Ile Glu Lys Met Lys Lys Ser Lys Asp Ala Ala
         355                360                365

Phe Gln Asn Val Leu Thr His Val Cys Leu Asp
         370                375
```

<210> 1204
<211> 77

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<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1204
Leu Ser Xaa Pro Gly Ala Trp Phe Tyr Val Pro Val Ala Met Phe Pro
 1           5                   10                  15

Val Ser Ser Gly Cys Phe Gln Glu Gln Gln Glu Thr Asn Lys Ser Leu
            20                  25                  30

Thr Leu Leu Arg Cys Ser Gln Arg Asp Thr Ser Pro Leu Met Asp Gly
        35                  40                  45

Gln Thr Trp Ala Gly Ser Val Ser Leu Asn His Pro Pro Leu Pro Gln
    50                  55                  60

Leu Pro Thr Thr Asp Thr Ser Asp Asp Thr Pro Gly Lys
 65                  70                  75




<210> 1205
<211> 305
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (222)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (223)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (227)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (235)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (239)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (273)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (277)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (284)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1205
```

Phe Thr Ser Val Ser Cys Thr Ser Thr Ser Ser Phe Ser Ser Asn Ala
 1   5   10   15

Ala Gln Arg Phe Phe Leu Leu His Gly Thr Lys Cys Asn Tyr Ser Pro
             20   25   30

Gly Ser Pro Val Tyr Phe Cys Tyr Glu Ser Ser Tyr Phe Asn Thr Thr
             35   40   45

Ser Arg Pro Thr Ser Cys Ser Ala Val Ser Ser Ala Val Asn Ile Met
     50   55   60

Asn Gly Ser Gln Met His Ile Asn Pro Ala Asn Lys Ser Leu Pro Pro
 65   70   75   80

Thr Phe Gly Pro Ala Thr Leu Phe Asn His Phe Ser Ser Leu Phe Asp
                 85   90   95

Ser Ser Gln Val Pro Ala Asn Gln Gly Trp Gly Asp Gly Pro Leu Ser
                 100   105   110

Ser Arg Val Ala Thr Asp Ala Ser Phe Thr Val Gln Ser Ala Phe Leu
             115   120   125

Gly Asn Ser Val Leu Gly His Leu Glu Asn Met His Pro Asp Asn Ser
     130   135   140

Lys Ala Pro Gly Phe Arg Pro Pro Ser Gln Arg Val Ser Thr Ser Pro
145   150   155   160

```
Val Gly Leu Pro Ser Ile Asp Pro Ser Gly Ser Ser Pro Ser Ser Ser
                165             170             175

Ser Ala Pro Leu Ala Ser Phe Ser Gly Ile Pro Gly Thr Arg Val Phe
            180             185             190

Leu Gln Gly Pro Ala Pro Val Gly Thr Pro Ser Phe Asn Arg Gln His
            195             200             205

Phe Ser Pro His Pro Trp Thr Ser Ala Ser Asn Ser Cys Xaa Xaa Pro
    210             215             220

Ile Pro Xaa Val Ser Ser Gly Ser Ser Ser Xaa Leu Ser Ala Xaa Ser
225             230             235             240

Cys Pro Thr Asn Val Gly Ala Asn Gln Lys Gly Val Ser Ala Ser Gln
            245             250             255

Gly Phe Gly Lys Val Thr Phe Pro Gln Leu Gly Asn Arg Arg Arg Thr
            260             265             270

Xaa Ala Arg Ile Xaa Gly Lys Gly Gly Gly Phe Xaa Trp His Lys Ala
            275             280             285

Pro Gly Gly Asn Gln Phe Phe Cys Ser Val Ser Leu Trp Asp Lys Val
    290             295             300

Gly
305
```

```
<210> 1206
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1206
Arg Glu His Ser Ala Phe Asp Leu Trp Glu Ile Ser Ser Trp Xaa Pro
 1               5                  10                  15


Trp Cys Cys Thr Asp His Gln Glu Glu Leu Lys Ser Ser Gly Asn Leu
                20                  25                  30


Xaa Lys Ile Lys Ser Pro Pro Ala Arg Xaa Leu Ser Lys Ile Thr Gly
                35                  40                  45


Arg Leu Leu Xaa Gln His Val Xaa Glu Cys Ala Ser Gly
         50                  55                  60




<210> 1207
<211> 177
<212> PRT
<213> Homo sapiens

<400> 1207
Asn Ser Ala Gln Gly Met Ala Gly Ser Pro Glu Leu Val Val Leu Asp
 1               5                  10                  15


Pro Pro Trp Asp Lys Glu Leu Ala Ala Gly Thr Glu Ser Gln Ala Leu
                20                  25                  30


Val Ser Ala Thr Pro Arg Glu Asp Phe Arg Val Arg Cys Thr Ala Lys
         35                  40                  45


Arg Ala Val Thr Glu Met Leu Gln Leu Cys Gly Arg Phe Val Gln Lys
         50                  55                  60


Leu Gly Asp Ala Leu Pro Glu Glu Ile Arg Glu Pro Ala Leu Arg Asp
 65                  70                  75                  80


Ala Gln Trp Thr Phe Glu Ser Ala Val Gln Glu Asn Ile Ser Ile Asn
                85                  90                  95


Gly Gln Ala Trp Gln Glu Ala Ser Asp Asn Cys Phe Met Asp Ser Asp
```

```
              100                    105                    110
Ile Lys Val Leu Glu Asp Gln Phe Asp Glu Ile Ile Val Asp Ile Ala
        115                    120                    125

Thr Lys Arg Lys Gln Tyr Pro Arg Lys Ile Leu Glu Cys Val Ile Lys
        130                    135                    140

Thr Ile Lys Ala Lys Gln Glu Ile Leu Lys Gln Tyr His Pro Val Val
145                    150                    155                    160

His Pro Leu Asp Leu Lys Tyr Asp Pro Asp Pro Val Leu Ala Cys Ile
                165                    170                    175

Asn
```

```
<210> 1208
<211> 288
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (277)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1208
Pro His Arg Val Asp Thr Arg Arg Arg Asp Pro Val Pro Arg Ser Arg
  1                5                    10                    15

Ala Leu Ser His Gly Thr Gly Arg Val Gly Ala Ala Ala Gly Glu Ser
                20                    25                    30

Ser Arg Ala Pro Arg Cys Trp Ser Gly Ser Arg Pro Arg Ala Pro Ala
            35                    40                    45

Asp Pro Pro Arg His Arg Pro Leu Leu Cys Leu Ser Arg Arg Gly Ser
        50                    55                    60

Pro Pro His His Leu Gly Cys Leu Leu Gly Glu Ser Phe Met Gln Leu
65                    70                    75                    80

Gln Gln Arg Leu Leu Arg Glu Lys Glu Ala Lys Ile Arg Lys Ala Leu
                85                    90                    95

Asp Arg Leu Arg Lys Lys Arg His Leu Leu Arg Arg Gln Arg Thr Arg
            100                    105                    110
```

```
Arg Glu Phe Pro Val Ile Ser Val Val Gly Tyr Thr Asn Cys Gly Lys
        115             120             125

Thr Thr Leu Ile Lys Ala Leu Thr Gly Asp Ala Ala Ile Gln Pro Arg
        130             135             140

Asp Gln Leu Phe Ala Thr Leu Asp Val Thr Ala His Ala Gly Thr Leu
145             150             155             160

Pro Ser Arg Met Thr Val Leu Tyr Val Asp Thr Ile Gly Phe Leu Ser
            165             170             175

Gln Leu Pro His Gly Leu Ile Glu Ser Phe Ser Ala Thr Leu Glu Asp
            180             185             190

Val Ala His Ser Asp Leu Ile Leu His Val Arg Asp Val Ser His Pro
            195             200             205

Glu Ala Glu Leu Gln Lys Cys Ser Val Leu Ser Thr Leu Arg Gly Leu
    210             215             220

Gln Leu Pro Ala Pro Leu Leu Asp Ser Met Val Glu Val His Asn Lys
225             230             235             240

Val Asp Leu Val Pro Gly Tyr Ser Pro Thr Glu Pro Asn Val Val Pro
            245             250             255

Val Ser Ala Leu Arg Gly His Gly Leu Gln Glu Leu Lys Leu Ser Ser
            260             265             270

Met Arg Arg Phe Xaa Arg Arg Arg Gly Asp Arg Ser Ser Leu Ser Val
            275             280             285
```

<210> 1209
<211> 327
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (261)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1209

Asn Ile Leu Gly Gly Gly Lys Trp Phe Leu Arg Gly Ile Leu Leu Ile
 1   5   10   15

Leu Pro Gln Val Tyr Leu Pro Cys Val Leu Gln Thr Lys Xaa Arg Tyr
             20   25   30

Val Gly Tyr Met Tyr Glu Thr Leu Asp Gln Lys Asp Pro Val Phe Asp
         35   40   45

Ala Lys Gly Ile Glu Thr Val Arg Arg Asp Ser Cys Pro Ala Val Ser
     50   55   60

Lys Ile Leu Glu Arg Ser Leu Lys Leu Leu Phe Glu Thr Arg Asp Ile
 65   70   75   80

Ser Leu Ile Lys Gln Tyr Val Gln Arg Gln Cys Met Lys Leu Leu Glu
                 85   90   95

Gly Lys Ala Ser Ile Gln Asp Phe Ile Phe Ala Lys Glu Tyr Arg Gly
             100   105   110

Ser Phe Ser Tyr Lys Pro Gly Ala Cys Val Pro Ala Leu Glu Leu Thr
         115   120   125

Arg Lys Met Leu Thr Tyr Asp Arg Arg Ser Glu Pro Gln Val Gly Glu
     130   135   140

Arg Val Pro Tyr Val Ile Ile Tyr Gly Thr Pro Gly Val Pro Leu Ile
145   150   155   160

Gln Leu Val Arg Arg Pro Val Glu Val Leu Gln Asp Pro Thr Leu Arg
             165   170   175

Leu Asn Ala Thr Tyr Tyr Ile Thr Lys Gln Ile Leu Pro Pro Leu Ala
         180   185   190

Arg Ile Phe Ser Leu Ile Gly Ile Asp Val Phe Ser Trp Tyr His Glu
         195   200   205

Leu Pro Arg Ile His Lys Ala Thr Ser Ser Ser Arg Ser Glu Pro Glu
     210   215   220

Gly Arg Lys Gly Thr Ile Ser Gln Tyr Phe Thr Thr Leu His Cys Pro
225   230   235   240

Val Cys Asp Asp Leu Thr Gln His Gly Ile Cys Ser Lys Cys Arg Ser
                 245   250   255

```
Gln Pro Gln His Xaa Ala Val Ile Leu Asn Gln Glu Ile Arg Glu Leu
        260                 265                 270

Glu Arg Gln Gln Glu Gln Leu Val Lys Ile Cys Lys Asn Cys Thr Gly
        275                 280                 285

Cys Phe Asp Arg His Ile Pro Cys Val Ser Leu Asn Cys Pro Val Leu
        290                 295                 300

Phe Lys Leu Ser Arg Val Asn Arg Glu Leu Ser Lys Ala Pro Tyr Leu
305                 310                 315                 320

Arg Gln Leu Leu Asp Gln Phe
                325
```

<210> 1210
<211> 676
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (374)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1210

```
Pro Val Leu Arg Thr His Pro Gly Pro Gln Ser Leu Pro Arg Val Pro
  1               5                 10                  15

Gly Val Pro Cys Gly Gly Leu Leu Glu Pro Leu Ser Arg Ala Glu Val
              20                  25                  30

Ser Pro Arg Leu Gly Leu Arg Arg Asp Leu Leu Gly Gly Met Ala Pro
          35                  40                  45

Pro Gly Ser Ser Thr Val Phe Leu Leu Ala Leu Thr Ile Ile Ala Ser
      50                  55                  60

Thr Trp Ala Leu Thr Pro Thr His Tyr Leu Thr Lys His Asp Val Glu
 65                  70                  75                  80

Arg Leu Lys Ala Ser Leu Asp Arg Pro Phe Thr Asn Leu Glu Ser Ala
              85                  90                  95

Phe Tyr Ser Ile Val Gly Leu Ser Ser Leu Gly Ala Gln Val Pro Asp
              100                 105                 110

Ala Lys Lys Ala Cys Thr Tyr Ile Arg Ser Asn Leu Asp Pro Ser Asn
              115                 120                 125
```

Val Asp Ser Leu Phe Tyr Ala Ala Gln Ala Ser Gln Ala Leu Ser Gly
    130   135   140

Cys Glu Ile Ser Ile Ser Asn Glu Thr Lys Asp Leu Leu Leu Ala Ala
145   150   155   160

Val Ser Glu Asp Ser Ser Val Thr Gln Ile Tyr His Ala Val Ala Ala
                165   170   175

Leu Ser Gly Phe Gly Leu Pro Leu Ala Ser Gln Glu Ala Leu Ser Ala
                180   185   190

Leu Thr Ala Arg Leu Ser Lys Glu Glu Thr Val Leu Ala Thr Val Gln
            195   200   205

Ala Leu Gln Thr Ala Ser His Leu Ser Gln Gln Ala Asp Leu Arg Ser
    210   215   220

Ile Val Glu Glu Ile Glu Asp Leu Val Ala Arg Leu Asp Glu Leu Gly
225   230   235   240

Gly Val Tyr Leu Gln Phe Glu Glu Gly Leu Glu Thr Thr Ala Leu Phe
                245   250   255

Val Ala Ala Thr Tyr Lys Leu Met Asp His Val Gly Thr Glu Pro Ser
            260   265   270

Ile Lys Glu Asp Gln Val Ile Gln Leu Met Asn Ala Ile Phe Ser Lys
        275   280   285

Lys Asn Phe Glu Ser Leu Ser Glu Ala Phe Ser Val Ala Ser Ala Ala
    290   295   300

Ala Val Leu Ser His Asn Arg Tyr His Val Pro Val Val Val Val Pro
305   310   315   320

Glu Gly Ser Ala Ser Asp Thr His Glu Gln Ala Ile Leu Arg Leu Gln
            325   330   335

Val Thr Asn Val Leu Ser Gln Pro Leu Thr Gln Ala Thr Val Lys Leu
            340   345   350

Glu His Ala Lys Ser Val Ala Ser Arg Ala Thr Val Leu Gln Lys Thr
        355   360   365

Ser Phe Thr Pro Val Xaa Asp Val Phe Glu Leu Asn Phe Met Asn Val
    370   375   380

Lys Phe Ser Ser Gly Tyr Tyr Asp Phe Leu Val Glu Val Glu Gly Asp
385   390   395   400

Asn Arg Tyr Ile Ala Asn Thr Val Glu Leu Arg Val Lys Ile Ser Thr
            405   410   415

Glu Val Gly Ile Thr Asn Val Asp Leu Ser Thr Val Asp Lys Asp Gln
            420   425   430

Ser Ile Ala Pro Lys Thr Thr Arg Val Thr Tyr Pro Ala Lys Ala Lys
            435   440   445

Gly Thr Phe Ile Ala Asp Ser His Gln Asn Phe Ala Leu Phe Phe Gln
    450   455   460

Leu Val Asp Val Asn Thr Gly Ala Glu Leu Thr Pro His Gln Thr Phe
465   470   475   480

Val Arg Leu His Asn Gln Lys Thr Gly Gln Glu Val Val Phe Val Ala
            485   490   495

Glu Pro Asp Asn Lys Asn Val Tyr Lys Phe Glu Leu Asp Thr Ser Glu
            500   505   510

Arg Lys Ile Glu Phe Asp Ser Ala Ser Gly Thr Tyr Thr Leu Tyr Leu
            515   520   525

Ile Ile Gly Asp Ala Thr Leu Lys Asn Pro Ile Leu Trp Asn Val Ala
    530   535   540

Asp Val Val Ile Lys Phe Pro Glu Glu Glu Ala Pro Ser Thr Val Leu
545   550   555   560

Ser Gln Asn Leu Phe Thr Pro Lys Gln Glu Ile Gln His Leu Phe Arg
            565   570   575

Glu Pro Glu Lys Arg Pro Pro Thr Val Val Ser Asn Thr Phe Thr Ala
            580   585   590

Leu Ile Leu Ser Pro Leu Leu Leu Phe Ala Leu Trp Ile Arg Ile
            595   600   605

Gly Ala Asn Val Ser Asn Phe Thr Phe Ala Pro Ser Thr Ile Ile Phe
    610   615   620

His Leu Gly His Ala Ala Met Leu Gly Leu Met Tyr Val Tyr Trp Thr
625   630   635   640

Gln Leu Asn Met Phe Gln Thr Leu Lys Tyr Leu Ala Ile Leu Gly Ser
            645   650   655

Val Thr Phe Leu Ala Gly Asn Arg Met Leu Ala Gln Gln Ala Val Lys
            660   665   670

Arg Thr Ala His
        675

<210> 1211
<211> 56
<212> PRT
<213> Homo sapiens

<400> 1211
His Val Cys Leu Thr Leu Met Glu Gly Ile Asn Pro Gln Asn Phe Leu
  1   5   10   15

Pro Arg Glu Leu Gly Asn Cys Pro Arg Asn Lys Pro Cys Thr Val Glu
            20   25   30

Trp Thr Trp Ile Ser Asn Asn Leu Leu Leu Cys Arg Ile Cys Ser Leu
            35   40   45

Val Ile Val Trp Cys Val Ile Leu
        50   55

<210> 1212
<211> 61
<212> PRT
<213> Homo sapiens

<400> 1212
Ser Tyr Pro Ala Ala Lys Ser Ser Val Ile Phe Gly Ala Leu Arg Ile
  1   5   10   15

Thr Leu Val Ser Ala His Phe Pro Phe Cys Leu Pro Tyr Lys Ala Gln
            20   25   30

Asn Arg Val Gly Lys Lys Tyr Glu Thr Ser Thr Val Ser Thr Phe Leu
            35   40   45

Glu Val Trp Tyr Leu Val Ser Arg Leu Arg Pro Gln Asp
        50   55   60

<210> 1213
<211> 260
<212> PRT
<213> Homo sapiens

```
<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1213
Cys Pro Pro Glu Cys Arg Trp Cys Val Ala Arg Leu Ala Leu Arg Glu
 1               5                10                15

Ser Trp Gly Leu Leu Pro Glu Arg Tyr Gly Tyr Val Asp Arg Asn Arg
             20                25                30

Ile Phe Gly Cys Asp Pro Pro Tyr Tyr Ala Val Leu Glu Gly Glu Gln
         35                40                45

Phe Thr Ser Gly Val Ser Thr Leu Gln Glu Glu Thr Thr Val Ser Leu
     50                55                60

Asn Thr Val Asp Ser Ile Glu Ser Phe Val Ala Asp Ile Asn Ser Gly
 65                70                75                80

His Trp Asp Thr Val Leu Gln Ala Ile Gln Ser Leu Lys Leu Pro Asp
             85                90                95

Lys Thr Leu Ile Asp Leu Tyr Glu Gln Val Val Leu Glu Leu Ile Glu
            100               105               110

Leu Arg Glu Leu Gly Ala Ala Arg Ser Leu Leu Arg Gln Thr Asp Pro
            115               120               125

Met Ile Met Leu Lys Gln Thr Gln Pro Glu Arg Tyr Ile His Leu Glu
            130               135               140

Asn Leu Leu Ala Arg Ser Tyr Phe Asp Pro Arg Glu Ala Tyr Pro Asp
145               150               155               160

Gly Ser Ser Lys Glu Lys Arg Arg Ala Ala Ile Ala Gln Ala Leu Ala
                165               170               175

Gly Glu Val Ser Val Val Pro Pro Ser Arg Leu Met Ala Leu Leu Gly
            180               185               190

Gln Ala Leu Lys Trp Gln Gln His Gln Gly Leu Leu Xaa Pro Gly Met
            195               200               205

Thr Ile Asp Leu Phe Arg Gly Lys Ala Ala Val Lys Asp Val Glu Glu
            210               215               220

Glu Lys Phe Pro Thr Gln Leu Ser Arg His Ile Lys Phe Gly Gln Lys
225               230               235               240
```

```
Ser His Val Glu Cys Ala Arg Phe Ser Pro Asp Gly Pro Val Phe Gly
              245                 250                 255

His Trp Val Cys
        260
```

<210> 1214
<211> 95
<212> PRT
<213> Homo sapiens

<400> 1214

```
Lys Gln Asn Ile Pro Tyr Val Ser Phe Ser Ile Gly Gln Lys His Phe
 1               5               10                  15

Asp Thr Met Phe Val Lys His Leu Trp Arg Gly Ala Leu Leu Asn Ala
              20                  25                  30

Ala Ser Ala Val Asn Pro Gly Gly Lys Gly Ser Ala Ser Ser Gln Glu
          35                  40                  45

Pro Ser Pro Ser Ile Asn Arg Glu Leu Lys Gln Ala Phe Phe Phe Ser
      50                  55                  60

Tyr Arg Lys Ala Ala Ile Val Gln Gly His Ile Met Gly Leu Phe Ala
 65                  70                  75                  80

Leu Ile Gly Phe Gln Met Cys Met Ala Lys Arg Glu Met Trp Ala
              85                  90                  95
```

<210> 1215
<211> 365
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1215

```
Xaa His Gly Ile Gly Val Thr Ala Thr Asn Phe Thr Thr His Asn Ile
 1               5               10                  15

Pro Gln Thr Phe Thr Thr Ala Ile Arg Cys Thr Lys Cys Gly Lys Gly
              20                  25                  30
```

Val Asp Asn Met Pro Glu Leu His Lys His Ile Leu Ala Cys Ala Ser
        35   40   45

Ala Ser Asp Lys Lys Arg Tyr Thr Pro Lys Lys Asn Pro Val Pro Leu
        50   55   60

Lys Gln Thr Val Gln Pro Lys Asn Gly Val Val Val Leu Asp Asn Ser
65   70   75   80

Gly Lys Asn Ala Phe Arg Arg Met Gly Gln Pro Lys Arg Leu Asn Phe
                85   90   95

Ser Val Glu Leu Ser Lys Met Ser Ser Asn Lys Leu Lys Leu Asn Ala
                100   105   110

Leu Lys Lys Lys Asn Gln Leu Val Gln Lys Ala Ile Leu Gln Lys Asn
        115   120   125

Lys Ser Ala Lys Gln Lys Ala Asp Leu Lys Asn Ala Cys Glu Ser Ser
        130   135   140

Ser His Ile Cys Pro Tyr Cys Asn Arg Glu Phe Thr Tyr Ile Gly Ser
145   150   155   160

Leu Asn Lys His Ala Ala Phe Ser Cys Pro Lys Lys Pro Leu Ser Pro
                165   170   175

Pro Lys Lys Lys Val Ser His Ser Ser Lys Lys Gly Gly His Ser Ser
                180   185   190

Pro Ala Ser Ser Asp Lys Asn Ser Asn Ser Asn His Arg Arg Arg Thr
                195   200   205

Ala Asp Ala Glu Ile Lys Met Gln Ser Met Gln Thr Pro Leu Gly Lys
        210   215   220

Thr Arg Ala Arg Ser Ser Gly Pro Thr Gln Val Pro Leu Pro Ser Ser
225   230   235   240

Ser Phe Arg Ser Lys Gln Asn Val Lys Phe Ala Ala Ser Val Lys Ser
                245   250   255

Lys Lys Pro Ser Ser Ser Ser Leu Arg Asn Ser Ser Pro Ile Arg Met
                260   265   270

Ala Lys Ile Thr His Val Glu Gly Lys Lys Pro Lys Ala Val Ala Lys
                275   280   285

Asn His Ser Ala Gln Leu Ser Ser Lys Thr Ser Arg Ser Leu His Val
        290   295   300

Arg Val Gln Lys Ser Lys Ala Val Leu Gln Ser Lys Ser Thr Leu Ala
305   310   315   320

Ser Lys Lys Arg Thr Asp Arg Phe Asn Ile Lys Ser Arg Glu Arg Ser
                325   330   335

Gly Gly Pro Val Thr Arg Ser Leu Gln Leu Ala Ala Ala Ala Asp Leu
                340   345   350

Ser Glu Asn Lys Arg Glu Asp Gly Ser Ala Ser Arg Ser
                355   360   365

<210> 1216
<211> 558
<212> PRT
<213> Homo sapiens

<400> 1216
Ala His Ala Ser Ala His Ala Ala Thr Pro Arg Arg Leu Trp Ala Leu
  1   5   10   15

Ser Ile Val Ser Phe Ser Ser Ala Gly Ala Ala Met Ala Ala Val Lys
                20   25   30

Thr Leu Asn Pro Lys Ala Glu Val Ala Arg Ala Gln Ala Ala Leu Ala
                35   40   45

Val Asn Ile Ser Ala Ala Arg Gly Leu Gln Asp Val Leu Arg Thr Asn
      50   55   60

Leu Gly Pro Lys Gly Thr Met Lys Met Leu Val Ser Gly Ala Gly Asp
 65   70   75   80

Ile Lys Leu Thr Lys Asp Gly Asn Val Leu Leu His Glu Met Gln Ile
                85   90   95

Gln His Pro Thr Ala Ser Leu Ile Ala Lys Val Ala Thr Ala Gln Asp
                100   105   110

Asp Ile Thr Gly Asp Gly Thr Thr Ser Asn Val Leu Ile Ile Gly Glu
                115   120   125

Leu Leu Lys Gln Ala Asp Leu Tyr Ile Ser Glu Gly Leu His Pro Arg
                130   135   140

Ile Ile Thr Glu Gly Phe Glu Ala Ala Lys Glu Lys Ala Leu Gln Phe
145   150   155   160

Leu Glu Glu Val Lys Val Ser Arg Glu Met Asp Arg Glu Thr Leu Ile

                    165   170   175

Asp Val Ala Arg Thr Ser Leu Arg Thr Lys Val His Ala Glu Leu Ala
            180   185   190

Asp Val Leu Thr Glu Ala Val Val Asp Ser Ile Leu Ala Ile Lys Lys
            195   200   205

Gln Asp Glu Pro Ile Asp Leu Phe Met Ile Glu Ile Met Glu Met Lys
    210   215   220

His Lys Ser Glu Thr Asp Thr Ser Leu Ile Arg Gly Leu Val Leu Asp
225   230   235   240

His Gly Ala Arg His Pro Asp Met Lys Lys Arg Val Glu Asp Ala Tyr
                245   250   255

Ile Leu Thr Cys Asn Val Ser Leu Glu Tyr Glu Lys Thr Glu Val Asn
                260   265   270

Ser Gly Phe Phe Tyr Lys Ser Ala Glu Glu Arg Glu Lys Leu Val Lys
                275   280   285

Ala Glu Arg Lys Phe Ile Glu Asp Arg Val Lys Lys Ile Ile Glu Leu
    290   295   300

Lys Arg Lys Val Cys Gly Asp Ser Asp Lys Gly Phe Val Val Ile Asn
305   310   315   320

Gln Lys Gly Ile Asp Pro Phe Ser Leu Asp Ala Leu Ser Lys Glu Gly
                325   330   335

Ile Val Ala Leu Arg Arg Ala Lys Arg Arg Asn Met Glu Arg Leu Thr
                340   345   350

Leu Ala Cys Gly Gly Val Ala Leu Asn Ser Phe Asp Asp Leu Ser Pro
            355   360   365

Asp Cys Leu Gly His Ala Gly Leu Val Tyr Glu Tyr Thr Leu Gly Glu
    370   375   380

Glu Lys Phe Thr Phe Ile Glu Lys Cys Asn Asn Pro Arg Ser Val Thr
385   390   395   400

Leu Leu Ile Lys Gly Pro Asn Lys His Thr Leu Thr Gln Ile Lys Asp
                405   410   415

Ala Val Arg Asp Gly Leu Arg Ala Val Lys Asn Ala Ile Asp Asp Gly
            420   425   430

Cys Val Val Pro Gly Ala Gly Ala Val Glu Val Ala Met Ala Glu Ala

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            435                    440                    445

   Leu Ile Lys His Lys Pro Ser Val Lys Gly Arg Ala Gln Leu Gly Val
       450                 455             460

   Gln Ala Phe Ala Asp Ala Leu Leu Ile Ile Pro Lys Val Leu Ala Gln
   465             470             475                 480

   Asn Ser Gly Phe Asp Leu Gln Glu Thr Leu Val Lys Ile Gln Ala Glu
                   485             490                 495

   His Ser Glu Ser Gly Gln Leu Val Gly Val Asp Leu Asn Thr Gly Glu
                500             505             510

   Pro Met Val Ala Ala Glu Val Gly Val Trp Asp Asn Tyr Cys Val Lys
                515             520             525

   Lys Gln Leu Leu His Ser Cys Thr Val Ile Ala Thr Asn Ile Leu Leu
       530             535                 540

   Val Asp Glu Ile Met Arg Ala Gly Met Ser Ser Leu Lys Gly
   545                 550             555
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<210> 1217
<211> 226
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (185)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (199)
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<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1217
Leu Lys Val Leu Trp Cys Phe Leu Ile His Val Gln Gly Ser Ile Arg
 1               5                  10                  15

Gln Phe Ala Ala Cys Leu Val Leu Thr Asp Phe Gly Ile Ala Val Phe
             20                  25                  30

Glu Ile Pro His Gln Glu Ser Arg Gly Ser Ser Gln His Ile Leu Ser
             35                  40                  45

Ser Leu Arg Phe Val Phe Cys Phe Pro His Gly Asp Leu Thr Glu Phe
         50                  55                  60

Gly Phe Leu Met Pro Glu Leu Cys Leu Val Leu Lys Val Arg His Ser
 65                  70                  75                  80

Glu Asn Thr Leu Phe Ile Ile Ser Asp Ala Ala Asn Leu His Glu Phe
                 85                  90                  95

His Xaa Asp Leu Arg Ser Cys Phe Ala Pro Gln His Met Ala Met Leu
            100                 105                 110

Cys Ser Pro Ile Leu Tyr Gly Ser His Thr Ser Leu Gln Glu Phe Leu
            115                 120                 125

Arg Gln Leu Leu Thr Phe Tyr Lys Val Ala Gly Gly Cys Gln Glu Arg
            130                 135                 140
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Xaa Xaa Gly Cys Phe Pro Val Tyr Leu Val Tyr Ser Asp Lys Arg Met
145             150             155             160

Val Gln Thr Ala Ala Gly Asp Tyr Ser Gly Asn Ile Glu Trp Pro Ala
                165             170             175

Ala His Ser Val Gln Pro Cys Gly Xaa Pro Ala Ala Arg Pro Leu Xaa
                180             185             190

Pro Ser Ser Pro Pro Pro Xaa Pro Thr Gly Cys Cys Ser Xaa Pro Ser
        195             200             205

Thr Gln Ser Xaa Gln Ser Arg Leu Gln Xaa His Ala Gln Thr Val Glu
    210             215             220

Pro Lys
225



<210> 1218
<211> 255
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1218
Cys Xaa Leu Pro Gly Cys Glu Ala His Ile Ile Pro Phe Ile Leu Asp
  1             5               10              15

Glu Ile Gly Ala Asp Ile Glu Asp Arg His Ile Val Val Ser Cys Ala
                20              25              30

Ala Gly Val Thr Ile Ser Ser Ile Glu Lys Lys Leu Ser Ala Phe Arg
                35              40              45

Pro Ala Pro Arg Val Ile Arg Cys Met Thr Asn Thr Pro Val Val Val
    50              55              60

Arg Glu Gly Ala Thr Val Tyr Ala Thr Gly Thr His Ala Gln Val Glu
65              70              75              80

Asp Gly Arg Leu Met Glu Gln Leu Leu Ser Ser Val Gly Phe Cys Thr
                85              90              95

Glu Val Glu Glu Asp Leu Ile Asp Ala Val Thr Gly Leu Ser Gly Ser
```

```
                    100                    105                    110

     Gly Pro Ala Tyr Ala Phe Thr Ala Leu Asp Ala Leu Ala Asp Gly Gly
             115                    120                    125

     Val Lys Met Gly Leu Pro Arg Arg Leu Ala Val Arg Leu Gly Ala Gln
             130                    135                    140

     Ala Leu Leu Gly Ala Ala Lys Met Leu Leu His Ser Glu Gln His Pro
     145                    150                    155                    160

     Gly Gln Leu Lys Asp Asn Val Ser Ser Pro Gly Gly Ala Thr Ile His
                        165                    170                    175

     Ala Leu His Val Leu Glu Ser Gly Gly Phe Arg Ser Leu Leu Ile Asn
                    180                    185                    190

     Ala Val Glu Ala Ser Cys Ile Arg Thr Arg Glu Leu Gln Ser Met Ala
                    195                    200                    205

     Asp Gln Glu Gln Val Ser Pro Ala Ala Ile Lys Lys Thr Ile Leu Asp
             210                    215                    220

     Lys Val Lys Leu Asp Ser Pro Ala Gly Thr Ala Leu Ser Pro Ser Gly
     225                    230                    235                    240

     His Thr Lys Leu Leu Pro Arg Ser Leu Ala Pro Ala Gly Lys Asp
                        245                    250                    255
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<210> 1219
<211> 590
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (161)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 1219
Ala Gln Val Arg Ala Pro Pro Trp Leu Cys Cys Pro Arg Ala Trp Thr
 1               5               10                  15

Xaa Cys Pro Pro Pro Ala Cys Arg Arg Ala Gly Arg Pro Thr Arg Pro
                20                  25                  30

Ser Cys Ser Ala Val Thr Ala Pro Gly Ser Gly Gly Leu Val Ala Gly
            35                  40                  45

Gly Pro Glu Ala Phe Ala Ala Phe Leu Arg Arg Glu Arg Leu Ala Arg
        50                  55                  60

Phe Leu Asn Pro Asp Glu Val His Ala Ile Leu Arg Ala Ala Glu Arg
 65                  70                  75                  80

Pro Gly Glu Glu Gly Ala Ala Ala Ala Ala Ala Ala Arg Thr Arg Ser
                85                  90                  95

Ala Pro Arg Thr Thr Ala Leu Arg Ala Leu Leu Pro Arg Ala Val Gly
                100                 105                 110
```

Pro Gly Ala Xaa Ala Val Gly Ala Trp Leu Ala Arg Leu Leu Xaa Gly
        115   120   125

Arg Leu Xaa Arg Arg Xaa Ala Cys Arg Asp Ala Leu Pro Ala Pro Arg
        130   135   140

Arg Trp Arg Arg Trp Pro Leu Arg Leu Gln Gly Arg Ser Xaa Pro His
145   150   155   160

Xaa Arg Ser Ala Arg Glu Val Ile Ala Val Val Met Asp Val Phe Thr
                165   170   175

Asp Ile Asp Ile Phe Arg Asp Leu Gln Glu Ile Cys Arg Lys Gln Gly
                180   185   190

Val Ala Val Tyr Ile Leu Leu Asp Gln Ala Leu Leu Ser Gln Phe Leu
        195   200   205

Asp Met Cys Met Xaa Leu Lys Xaa His Pro Glu Gln Glu Lys Leu Met
        210   215   220

Thr Val Arg Thr Ile Thr Gly Asn Ile Tyr Tyr Ala Arg Ser Gly Thr
225   230   235   240

Lys Ile Ile Gly Lys Val His Glu Lys Phe Thr Leu Ile Asp Gly Ile
                245   250   255

Arg Val Ala Thr Gly Ser Tyr Ser Phe Thr Trp Thr Asp Gly Lys Leu
                260   265   270

Asn Ser Ser Asn Leu Val Ile Leu Ser Gly Gln Val Val Glu His Phe
        275   280   285

Asp Leu Glu Phe Arg Ile Leu Tyr Ala Gln Ser Lys Pro Ile Ser Pro
290   295   300

Lys Leu Leu Ser His Phe Gln Ser Ser Asn Lys Phe Asp His Leu Thr
305   310   315   320

Asn Arg Lys Pro Gln Ser Lys Glu Leu Thr Leu Gly Asn Leu Leu Arg
                325   330   335

Met Arg Leu Ala Arg Leu Ser Ser Thr Pro Arg Lys Ala Asp Leu Asp
        340   345   350

Pro Glu Met Pro Ala Glu Gly Lys Ala Glu Arg Lys Pro His Asp Cys
        355   360   365

Glu Ser Ser Thr Val Ser Glu Glu Asp Tyr Phe Ser Ser His Arg Asp
370   375   380

```
Glu Leu Gln Ser Arg Lys Ala Ile Asp Ala Ala Thr Gln Thr Glu Pro
385             390             395             400

Gly Glu Glu Met Pro Gly Leu Ser Val Ser Glu Val Gly Thr Gln Thr
                405             410             415

Ser Ile Thr Thr Ala Cys Ala Gly Thr Gln Thr Ala Val Ile Thr Arg
            420             425             430

Ile Ala Ser Ser Gln Thr Thr Ile Trp Ser Arg Ser Thr Thr Thr Gln
            435             440             445

Thr Asp Met Asp Glu Asn Ile Leu Phe Pro Arg Gly Thr Gln Ser Thr
    450             455             460

Glu Gly Ser Pro Val Ser Lys Met Ser Val Ser Arg Ser Ser Ser Leu
465             470             475             480

Lys Ser Ser Ser Ser Val Ser Ser Gln Gly Ser Val Ala Ser Ser Thr
            485             490             495

Gly Ser Pro Ala Ser Ile Arg Thr Thr Asp Phe His Asn Pro Gly Tyr
            500             505             510

Pro Lys Tyr Leu Gly Thr Pro His Leu Glu Leu Tyr Leu Ser Asp Ser
        515             520             525

Leu Arg Asn Leu Asn Lys Glu Arg Gln Phe His Phe Ala Gly Ile Arg
    530             535             540

Ser Arg Leu Asn His Met Leu Ala Met Leu Ser Arg Arg Thr Leu Phe
545             550             555             560

Thr Glu Asn His Leu Gly Leu His Ser Gly Asn Phe Ser Arg Val Asn
                565             570             575

Leu Leu Ala Val Arg Asp Val Ala Leu Tyr Pro Ser Tyr Gln
            580             585             590
```

<210> 1220
<211> 451
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1220

Val Glu Ile Ser Gly Pro Arg Pro Val Asp Trp Glu Val Arg Pro Pro
1   5   10   15

Leu Gln Arg Leu Gly Leu Cys Phe Gly Ser Cys Arg Xaa Gln Gln Ser
              20   25   30

Leu Pro Gly Arg Gly Ser Ala Asn Leu Leu Pro Ser Val Arg Ser Glu
          35   40   45

Ser Ala Val Leu Ser Asp Cys Val Gly Gly Phe Pro Gly Arg Ser Ser
      50   55   60

Val Arg Ala Trp Ile Ala Gly Pro Arg Cys Thr Pro Ala Ser Pro Thr
65   70   75   80

Arg Val Leu Ser Leu Ser Trp Arg Leu Phe Asn Ser Ala Ser Leu Leu
              85   90   95

Leu Leu Ala Thr Ser Thr Ser Gly Ser Glu Cys Arg Phe Pro Arg Ser
              100   105   110

Pro Arg Ala Arg Glu Arg Gly Ile Pro Asp Cys Glu Arg Leu Leu Val
          115   120   125

Arg Arg Ser Cys Trp Arg Ser Gly Asp Pro Arg Pro Ala Gly Pro Ala
      130   135   140

Gly His Ala Ala Gly Ala Phe Ser Thr Pro Gln Tyr Leu Gly Gly Thr
145   150   155   160

Ala Met Val Leu Leu His Val Lys Arg Gly Asp Glu Ser Gln Phe Leu
              165   170   175

Leu Gln Ala Pro Gly Ser Thr Glu Leu Glu Glu Leu Thr Val Gln Val
          180   185   190

Ala Arg Val Tyr Asn Gly Arg Leu Lys Val Gln Arg Leu Cys Ser Glu
          195   200   205

Met Glu Glu Leu Ala Glu His Gly Ile Phe Leu Pro Pro Asn Met Gln
      210   215   220

Gly Leu Thr Asp Asp Gln Ile Glu Glu Leu Lys Leu Lys Asp Glu Trp
225   230   235   240

Gly Glu Lys Cys Val Pro Ser Gly Gly Ala Val Phe Lys Lys Asp Asp
              245   250   255

Ile Gly Arg Arg Asn Gly Gln Ala Pro Asn Glu Lys Met Lys Gln Val

```
                260                      265                      270
Leu Lys Lys Thr Ile Glu Glu Ala Lys Ala Ile Ile Ser Lys Lys Gln
        275                  280                  285

Val Glu Ala Gly Val Cys Val Thr Met Glu Met Val Lys Asp Ala Leu
        290                  295                  300

Asp Gln Leu Arg Gly Ala Val Met Ile Val Tyr Pro Met Gly Leu Pro
305                  310                  315                  320

Pro Tyr Asp Pro Ile Arg Met Glu Phe Glu Asn Lys Glu Asp Leu Ser
                325                  330                  335

Gly Thr Gln Ala Gly Leu Asn Val Ile Lys Glu Ala Glu Ala Gln Leu
            340                  345                  350

Trp Trp Ala Ala Lys Glu Leu Arg Arg Thr Lys Lys Leu Ser Asp Tyr
        355                  360                  365

Val Gly Lys Asn Glu Lys Thr Lys Ile Ile Ala Lys Ile Gln Gln Arg
    370                  375                  380

Gly Gln Gly Ala Pro Ala Arg Glu Pro Ile Ile Ser Ser Glu Glu Gln
385                  390                  395                  400

Lys Gln Leu Met Leu Tyr Tyr His Arg Arg Gln Glu Glu Leu Lys Arg
            405                  410                  415

Leu Glu Glu Asn Asp Asp Asp Ala Tyr Leu Asn Ser Pro Trp Ala Asp
            420                  425                  430

Asn Thr Ala Leu Lys Arg His Phe His Gly Val Lys Asp Ile Lys Trp
        435                  440                  445

Arg Pro Arg
    450
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<210> 1221
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1221